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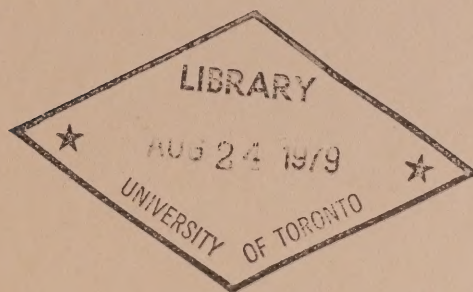






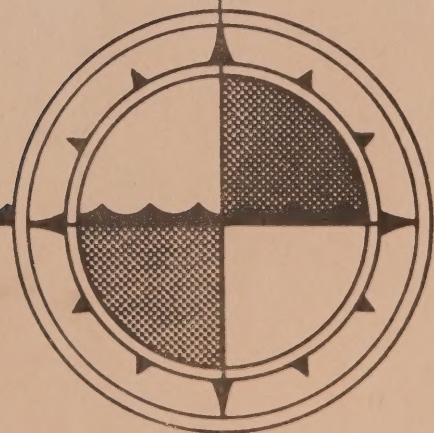
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**OCEANOGRAPHIC OBSERVATIONS  
IN KNIGHT INLET, B.C.  
VOLUME I: Salinity/Temperature Profile  
PART I: 1977**



by  
**Coastal Zone Oceanography Section**

*Canada*  
**INSTITUTE OF OCEAN SCIENCES, PATRICIA BAY  
Sidney, B.C.**





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VOLUME I: Salinity/Temperature Profile

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Sidney, B.C.

1979



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## Introduction

This report summarizes data gathered using a CTD (conductivity-temperature-depth probe) in Knight Inlet, British Columbia. The CTD study was part of a larger programme to study the general physical oceanography of Knight Inlet; summaries of other data collected (tide gauge, current meter, etc.) will be published in subsequent reports.

Raw data from the PRODAS (programmable data acquisition system) was processed on the Univac 1106 computer at Institute of Ocean Sciences, Patricia Bay. Processing involved the application of appropriate calibration and storage on magnetic tapes for further analysis. All data were stored on 800 BPI, 9-track magnetic tapes. Preceding the calibrated data records is a header which describes the data set. The CTD data described in this report is available on magnetic tapes, details concerning the location of specific files can be obtained from Coastal Zone Oceanography.

For presentation in this report samples have been taken at discrete intervals and values of pressure, salinity, temperature, sigma-t and Brunt-Väisällä frequency printed for each depth sampled. The Brunt-Väisällä frequency is computed by taking differences over a depth range of 2 metres. If the calculation indicates a local instability the calculation is repeated with a depth range of 10 metres and the resulting value is marked with the symbol \*. The units of Brunt-Väisällä frequency are cycles per hour.

The data collected in 1977 appears in Part I. Part II contains the data collected in 1978 and all the figures.

## Acknowledgements

The work was carried out by the personnel of the Coastal Zone Oceanography. We would like to acknowledge the assistance of the officers and crew of the many vessels we have used over the past few years.

## KNIGHT INLET CTD STATIONS

<u>CODE NO.</u>	<u>STATION</u>	<u>LATITUDE N</u>	<u>LONGITUDE W</u>
0	KN 12	51° 04.0'	125° 36.0'
1	KN 11	51° 02.3'	125° 33.8'
2	KN 10	50° 58.9'	125° 33.2'
3	KN 9	50° 54.3'	125° 32.8'
4	KN 8	50° 52.4'	125° 38.5'
5	KN 7	50° 47.9'	125° 37.0'
6	KN 6	50° 45.1'	125° 41.0'
7	SALLIE PT.	50° 41.9'	125° 43.5'
8	SIWASH BAY	50° 41.7'	125° 46.6'
9	KN 5	50° 41.6'	125° 47.2'
10	TOMAKSTUM IS.	50° 41.6'	125° 49.3'
11	MT. SAWYER	50° 41.1'	125° 51.9'
12	ROUGH PT.	50° 40.7'	125° 54.4'
13	KN 4	50° 40.8'	125° 56.3'
14	CAMP PEAK	50° 40.6'	125° 57.2'
15	HOEYA HD.	50° 40.6'	125° 59.5'
16	KN 3	50° 39.9'	126° 04.2'
17	MONTAGU PT.	50° 39.2'	126° 12.5'
18	KN 2	50° 38.5'	126° 17.3'
19	KN 1	50° 38.1'	126° 25.2'

## APPENDIX:

ACOUSTIC 1	50° 40.6'	126° 01.95'
ACOUSTIC 5	50° 40.6'	125° 58.85'
ACOUSTIC 7	50° 40.6'	125° 57.30'





CRUISE NO. 1





## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 1 KNIGHT INLET 1977

LAT N51 2.30

DATE 15/ 2/77

TIME (PST) 0959

TAPE CZ0/78/ 2- 1

LONG W125 33.80

PASS NO. 1

STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	10.74	5.04	8.57	182.17
2.1	2.1	25.10	6.43	19.74	112.58
5.3	5.3	29.64	7.14	23.21	40.76
10.1	10.1	30.30	7.23	23.72	8.60
15.0	15.1	30.39	7.22	23.79	5.00*
20.3	20.4	30.43	7.23	23.82	4.27
25.1	25.2	30.46	7.22	23.85	4.29
30.2	30.3	30.50	7.21	23.88	4.64
35.2	35.4	30.54	7.29	23.90	6.14
40.1	40.2	30.55	7.27	23.91	3.84*
45.2	45.4	30.58	7.28	23.93	2.91*
50.3	50.5	30.59	7.28	23.94	2.38*
60.2	60.5	30.62	7.29	23.97	3.11*
70.3	70.6	30.64	7.33	23.98	2.41*
80.2	80.6	30.68	7.38	24.00	1.87*
90.2	90.6	30.68	7.29	24.01	2.83*
100.2	100.6	30.70	7.27	24.03	2.04*
110.3	110.8	30.72	7.27	24.04	2.03*
120.2	120.8	30.72	7.23	24.05	1.59*
130.0	130.6	30.74	7.23	24.07	2.57*
140.0	140.7	30.76	7.22	24.08	2.86*
150.0	150.7	30.78	7.22	24.10	2.22*
160.2	160.9	30.81	7.21	24.12	2.92*
170.2	171.0	30.83	7.20	24.14	2.80*
180.1	181.0	30.85	7.21	24.15	2.21*
190.1	190.9	30.88	7.21	24.18	2.47*
200.0	201.0	30.90	7.21	24.20	1.99*
210.3	211.3	30.93	7.21	24.21	

MAX DEPTH 211.6



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 58.90  
 DATE 15/ 2/77  
 TIME (PST) 1034

TAPE CZ0/78/ 2- 87  
 LONG W125 33.20  
 PASS NO. 3  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	15.06	5.48	11.95	133.76
2.1	2.1	26.63	6.64	20.92	80.37
5.2	5.2	29.81	7.16	23.35	31.14
10.2	10.2	30.36	7.24	23.77	7.81
15.1	15.2	30.45	7.28	23.84	7.67
20.2	20.2	30.50	7.31	23.87	4.86*
25.1	25.2	30.54	7.34	23.89	5.40
30.1	30.3	30.57	7.41	23.91	4.34*
35.3	35.4	30.59	7.43	23.92	2.50*
40.2	40.4	30.63	7.42	23.95	2.64*
45.0	45.2	30.62	7.46	23.94	2.65*
50.2	50.4	30.63	7.44	23.95	2.48*
60.3	60.5	30.69	7.56	23.99	1.65*
70.0	70.4	30.71	7.61	23.99	2.26*
80.0	80.4	30.73	7.60	24.01	2.32*
90.3	90.7	30.71	7.43	24.02	1.72*
100.3	100.7	30.72	7.41	24.03	2.18*
110.1	110.6	30.77	7.44	24.06	2.00*
120.1	120.7	30.77	7.40	24.07	2.06*
130.1	130.7	30.79	7.46	24.08	2.36*
140.2	140.8	30.79	7.29	24.10	4.97
150.0	150.7	30.80	7.20	24.12	2.19*
160.3	161.0	30.83	7.20	24.14	2.57*
170.3	171.1	30.85	7.20	24.16	2.42*
180.2	181.1	30.86	7.20	24.17	2.30
190.3	191.2	30.90	7.20	24.20	2.54*
200.3	201.3	30.92	7.21	24.21	2.38*
210.3	211.3	30.95	7.21	24.23	2.42*
220.1	221.1	30.97	7.21	24.25	2.54*
230.2	231.3	31.00	7.22	24.27	2.21*
240.1	241.3	31.01	7.22	24.28	1.61*
250.1	251.3	31.02	7.22	24.29	1.37*
260.3	261.5	31.03	7.22	24.29	1.83*
270.0	271.3	31.04	7.22	24.30	1.66*
280.0	281.4	31.05	7.23	24.31	1.60*
290.1	291.5	31.06	7.23	24.32	1.68*
300.1	301.5	31.07	7.24	24.33	

MAX DEPTH 300.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 54.30  
 DATE 15/ 2/77  
 TIME (PST) 1123

TAPE CZ0/78/ 2- 3  
 LONG W125 32.80  
 PASS NO. 5  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	14.00	5.53	11.11	86.66
2.1	2.1	23.80	6.03	18.77	71.50
5.2	5.2	29.14	7.06	22.83	36.96
10.2	10.2	30.20	7.33	23.63	10.57
15.1	15.2	30.33	7.30	23.73	6.28
20.0	20.1	30.43	7.34	23.81	7.77
25.0	25.1	30.55	7.52	23.88	5.41*
30.1	30.3	30.56	7.58	23.88	3.30*
35.2	35.4	30.60	7.65	23.90	3.32*
40.3	40.5	30.63	7.66	23.92	3.15*
45.1	45.3	30.66	7.68	23.95	2.85*
50.2	50.4	30.67	7.67	23.95	2.41*
60.1	60.4	30.69	7.67	23.97	1.80*
70.3	70.6	30.71	7.67	23.98	2.11*
80.1	80.5	30.73	7.66	24.00	2.09*
90.1	90.5	30.75	7.66	24.01	2.23*
100.0	100.5	30.76	7.67	24.03	2.27*
110.2	110.8	30.79	7.65	24.05	2.14*
120.2	120.8	30.80	7.63	24.06	1.84*
130.1	130.7	30.82	7.66	24.07	1.95*
140.1	140.8	30.81	7.58	24.08	2.15*
150.2	150.9	30.81	7.40	24.10	2.54*
160.2	160.9	30.82	7.35	24.12	2.33*
170.0	170.8	30.84	7.32	24.14	2.58*
180.1	181.0	30.86	7.29	24.15	2.49*
190.2	191.1	30.88	7.23	24.18	2.48*
200.2	201.2	30.90	7.21	24.19	2.69*
210.1	211.1	30.93	7.20	24.22	2.68*
220.2	221.2	30.95	7.20	24.23	2.33*
230.0	231.1	30.97	7.20	24.25	2.12*
240.2	241.3	30.99	7.20	24.27	2.19*
250.1	251.3	31.00	7.21	24.28	1.80*
260.2	261.4	31.01	7.21	24.28	1.59*
270.2	271.5	31.02	7.22	24.29	1.79*
280.2	281.6	31.04	7.22	24.30	1.88*
290.3	291.7	31.05	7.22	24.31	1.71*
300.1	301.5	31.06	7.23	24.32	1.71*
310.1	311.6	31.08	7.24	24.33	1.88*
320.1	321.7	31.09	7.24	24.34	2.01*
330.0	331.7	31.12	7.25	24.36	2.05*
340.1	341.8	31.13	7.26	24.37	1.94*
360.0	361.8	31.17	7.27	24.40	2.43*
380.2	382.1	31.21	7.29	24.42	2.04*
400.1	402.1	31.22	7.30	24.43	

MAX DEPTH 411.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 52.40  
 DATE 15/ 2/77  
 TIME (PST) 1206

TAPE CZ0/78/ 2- 4  
 LONG W125 38.50  
 PASS NO. 7  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	16.20	5.89	12.81	88.07
2.0	2.0	23.49	6.61	18.46	78.69
5.3	5.3	30.13	7.33	23.58	31.01
10.1	10.1	30.32	7.43	23.71	6.87
15.1	15.1	30.47	7.55	23.82	5.93*
20.1	20.2	30.52	7.62	23.84	4.90
25.1	25.2	30.61	7.64	23.91	5.21
30.2	30.3	30.62	7.63	23.92	3.43*
35.2	35.4	30.64	7.62	23.94	2.72*
40.1	40.3	30.65	7.63	23.95	2.33*
45.2	45.4	30.66	7.63	23.95	2.48*
50.1	50.4	30.68	7.65	23.96	2.78*
60.3	60.6	30.70	7.62	23.98	2.12*
70.0	70.3	30.72	7.66	23.99	3.75*
80.1	80.4	30.75	7.66	24.02	2.37*
90.0	90.4	30.78	7.68	24.03	2.48*
100.1	100.5	30.80	7.68	24.05	1.90*
110.2	110.7	30.82	7.71	24.06	2.10*
120.2	120.8	30.84	7.68	24.08	2.06*
130.2	130.8	30.84	7.59	24.10	4.16*
140.2	140.8	30.83	7.37	24.12	1.35*
150.1	150.8	30.84	7.33	24.13	1.72*
160.0	160.8	30.87	7.38	24.15	2.21*
170.2	171.0	30.87	7.27	24.17	2.82*
180.3	181.2	30.90	7.24	24.19	3.94
190.3	191.2	30.93	7.21	24.22	2.63*
200.2	201.2	30.95	7.20	24.24	2.16*
210.2	211.2	30.97	7.20	24.25	2.02*
220.0	221.1	30.99	7.22	24.26	2.04*
230.0	231.1	31.01	7.23	24.28	1.85*
240.2	241.4	31.02	7.23	24.29	1.51*
250.1	251.3	31.03	7.22	24.30	2.04*
260.1	261.4	31.05	7.22	24.31	1.76*
270.0	271.3	31.06	7.23	24.32	1.65*
280.3	281.6	31.07	7.23	24.32	1.58*
290.1	291.5	31.08	7.24	24.33	1.79*
300.2	301.6	31.09	7.24	24.34	1.68*
310.2	311.7	31.10	7.24	24.34	1.75*
320.1	321.7	31.12	7.25	24.36	2.28*
330.1	331.7	31.13	7.26	24.37	2.14*
340.0	341.7	31.16	7.26	24.39	1.59*
360.2	362.0	31.19	7.28	24.41	1.91*
380.0	381.9	31.21	7.31	24.43	1.18*
400.1	402.0	31.22	7.31	24.43	.77*
420.1	422.2	31.23	7.31	24.44	1.30*
440.1	442.3	31.22	7.31	24.44	1.09*
460.1	462.4	31.23	7.31	24.44	

MAX DEPTH 468.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 47.90  
 DATE 15/ 2/77  
 TIME (PST) 1307

TAPE CZ0/78/ 2- 5  
 LONG W125 37.00  
 PASS NO. 9  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	21.03	6.26	16.57	129.20
2.2	2.2	28.90	7.16	22.63	64.34
5.1	5.1	29.64	7.27	23.20	20.36
10.1	10.2	30.31	7.50	23.69	9.29
15.2	15.3	30.44	7.54	23.79	7.18*
20.3	20.4	30.51	7.60	23.84	6.08
25.2	25.3	30.58	7.63	23.89	4.51
30.2	30.4	30.60	7.63	23.91	3.67*
35.2	35.4	30.62	7.62	23.92	2.95*
40.2	40.4	30.64	7.61	23.93	3.09*
45.0	45.2	30.65	7.57	23.95	2.94*
50.3	50.5	30.66	7.57	23.96	2.32*
60.1	60.4	30.68	7.57	23.97	2.12*
70.2	70.5	30.70	7.56	23.99	2.63*
80.1	80.5	30.73	7.59	24.01	2.34*
90.2	90.6	30.75	7.58	24.03	1.67*
100.1	100.6	30.76	7.59	24.03	1.66*
110.1	110.6	30.79	7.64	24.05	2.02*
120.3	120.9	30.80	7.65	24.06	1.98*
130.1	130.7	30.83	7.66	24.08	3.80*
140.2	140.9	30.84	7.63	24.10	5.25
150.1	150.8	30.87	7.63	24.12	2.59*
160.0	160.8	30.88	7.59	24.13	2.26*
170.2	171.0	30.89	7.57	24.14	2.07*
180.1	180.9	30.90	7.48	24.16	2.34*
190.3	191.2	30.91	7.35	24.19	2.73*
200.3	201.2	30.95	7.39	24.21	3.45
210.2	211.2	30.96	7.31	24.23	2.58*
220.1	221.2	30.98	7.27	24.25	2.15*
230.2	231.3	30.99	7.29	24.26	1.99*
240.0	241.2	31.01	7.27	24.28	2.11*
250.3	251.5	31.02	7.26	24.28	1.86*
260.2	261.4	31.03	7.26	24.29	1.44*
270.2	271.5	31.05	7.26	24.30	1.63*
280.1	281.5	31.06	7.27	24.31	1.91*
290.2	291.6	31.07	7.27	24.32	1.82*
300.1	301.6	31.09	7.28	24.34	1.65*
310.2	311.7	31.11	7.27	24.35	1.53*
320.3	321.8	31.12	7.27	24.36	1.90*
330.1	331.7	31.13	7.27	24.37	2.14*
340.1	341.7	31.15	7.27	24.39	2.39*
360.0	361.8	31.19	7.29	24.41	1.71*
380.3	382.2	31.21	7.31	24.43	1.48*
400.2	402.2	31.22	7.31	24.43	1.38*
420.1	422.2	31.22	7.31	24.44	+

MAX DEPTH 428.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 45.10  
 DATE 15/ 2/77  
 TIME (PST) 1350

TAPE CZ0/78/ 2- 6  
 LONG W125 41.00  
 PASS NO. 11  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	20.01	6.28	15.77	63.95
2.0	2.0	24.12	6.68	18.95	81.11
5.1	5.2	30.06	7.44	23.51	29.43
10.2	10.3	30.35	7.55	23.72	10.49
15.0	15.1	30.45	7.58	23.79	8.44
20.0	20.1	30.51	7.62	23.83	4.35*
25.2	25.3	30.53	7.59	23.86	3.88*
30.3	30.4	30.57	7.58	23.89	2.97*
35.2	35.4	30.58	7.59	23.90	2.98
40.1	40.3	30.62	7.58	23.92	3.93*
45.2	45.4	30.62	7.56	23.93	2.69*
50.1	50.3	30.64	7.54	23.95	2.45*
60.2	60.5	30.67	7.55	23.97	2.04*
70.1	70.5	30.68	7.54	23.98	1.80*
80.3	80.6	30.69	7.54	23.99	1.84*
90.2	90.7	30.71	7.54	24.00	2.25*
100.1	100.6	30.74	7.55	24.03	2.71*
110.2	110.7	30.77	7.56	24.04	2.68*
120.3	120.8	30.79	7.57	24.06	2.15*
130.1	130.7	30.81	7.59	24.07	2.11*
140.2	140.9	30.84	7.65	24.09	2.02*
150.2	150.9	30.85	7.61	24.10	1.91*
160.1	160.8	30.87	7.60	24.12	2.44*
170.0	170.8	30.89	7.58	24.14	2.72*
180.2	181.0	30.91	7.54	24.16	3.02*
190.2	191.1	30.95	7.49	24.20	2.77*
200.3	201.3	30.96	7.43	24.21	2.14*
210.1	211.1	30.97	7.42	24.22	2.19*
220.2	221.3	30.99	7.42	24.24	2.44*
230.2	231.3	31.02	7.43	24.26	2.06*
240.2	241.4	31.03	7.41	24.27	2.04*
250.3	251.5	31.04	7.38	24.28	2.12*
260.3	261.6	31.05	7.36	24.29	1.66*
270.0	271.3	31.06	7.36	24.30	1.87*
280.1	281.5	31.07	7.35	24.31	2.09*
290.1	291.5	31.09	7.33	24.33	1.84*
300.1	301.6	31.10	7.33	24.33	1.46*
310.1	311.6	31.10	7.33	24.34	1.50*
320.2	321.8	31.11	7.32	24.34	1.70*
330.1	331.8	31.11	7.31	24.35	1.50*
340.3	341.9	31.12	7.30	24.36	1.68*
360.1	361.8	31.16	7.31	24.39	2.07*
380.2	382.0	31.19	7.31	24.41	1.65*
400.0	402.0	31.21	7.32	24.43	1.38*

MAX DEPTH 400.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 41.90  
 DATE 16/ 2/77  
 TIME (PST) 1036

TAPE CZ0/78/ 2- 7  
 LONG W125 43.50  
 PASS NO. 1  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.90	6.68	18.78	+
2.0	2.0	23.75	6.68	18.66	50.01
5.2	5.2	29.73	7.29	23.27	38.90
10.1	10.2	30.31	7.38	23.71	12.32
15.0	15.1	30.49	7.42	23.84	6.01*
20.1	20.2	30.49	7.42	23.85	3.16
25.2	25.3	30.52	7.43	23.87	4.08*
30.0	30.2	30.53	7.43	23.88	3.22*
35.1	35.3	30.57	7.43	23.91	3.09*
40.2	40.4	30.60	7.45	23.93	2.85*
45.3	45.5	30.60	7.44	23.93	2.07*
50.1	50.3	30.60	7.45	23.93	1.40*
60.2	60.4	30.61	7.46	23.94	1.53
70.0	70.3	30.66	7.47	23.97	3.40*
80.2	80.5	30.67	7.47	23.98	1.57*
90.2	90.6	30.68	7.47	23.99	1.97*
100.0	100.5	30.69	7.47	24.00	2.08*
110.2	110.7	30.71	7.47	24.01	1.57*
120.3	120.8	30.71	7.47	24.01	1.13*
130.1	130.7	30.72	7.46	24.02	2.18*
140.1	140.8	30.75	7.49	24.04	2.22*
150.1	150.8	30.77	7.50	24.06	2.19*
160.0	160.8	30.80	7.51	24.08	4.33*
170.3	171.1	30.84	7.51	24.11	2.30*
180.1	180.9	30.84	7.51	24.11	1.82*
190.1	191.0	30.86	7.51	24.13	2.53*
200.0	201.0	30.89	7.50	24.15	2.67*
210.2	211.2	30.91	7.49	24.16	2.20*
220.2	221.3	30.92	7.46	24.18	2.40*
230.2	231.3	30.95	7.47	24.20	3.16*
240.3	241.4	30.98	7.45	24.23	3.09*
250.2	251.3	31.01	7.44	24.25	2.00*
260.0	261.2	31.01	7.43	24.25	1.82*
270.2	271.5	31.04	7.43	24.27	1.79*
280.1	281.4	31.04	7.42	24.28	1.72*
290.2	291.6	31.07	7.40	24.30	2.35*
300.2	301.7	31.08	7.37	24.31	1.92*
310.2	311.7	31.09	7.37	24.32	1.39*
320.1	321.6	31.09	7.35	24.33	1.67*
330.1	331.7	31.11	7.34	24.34	3.18*
340.0	341.7	31.16	7.30	24.38	2.93*

MAX DEPTH 359.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 41.70  
 DATE 16/ 2/77  
 TIME (PST) 1109

TAPE CZ0/78/ 2- 8  
 LONG W125 46.60  
 PASS NO. 3  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.64	7.15	22.43	39.78
2.2	2.2	28.81	7.16	22.56	9.83*
5.1	5.2	30.36	7.32	23.76	24.82
10.0	10.1	30.50	7.34	23.86	9.86
15.2	15.3	30.53	7.35	23.89	3.51*
20.2	20.2	30.54	7.36	23.89	3.07
25.1	25.2	30.58	7.36	23.92	6.44
30.0	30.2	30.61	7.38	23.95	2.37*
35.2	35.4	30.61	7.39	23.95	3.37
40.1	40.2	30.64	7.40	23.97	3.85*
45.0	45.2	30.66	7.39	23.98	3.56
50.2	50.4	30.69	7.41	24.01	4.23*
60.1	60.4	30.70	7.42	24.01	.83*
70.3	70.6	30.70	7.42	24.01	1.09*
80.3	80.7	30.72	7.43	24.02	1.63*
90.1	90.5	30.73	7.45	24.03	1.14*
100.1	100.6	30.73	7.45	24.03	1.19*
110.1	110.6	30.76	7.46	24.05	2.57*
120.1	120.7	30.80	7.47	24.08	2.42*
130.2	130.8	30.81	7.47	24.09	1.87*
140.1	140.8	30.83	7.48	24.10	1.77*
150.1	150.8	30.84	7.48	24.11	1.77*
160.1	160.8	30.86	7.48	24.13	3.56*
170.1	170.9	30.94	7.47	24.19	3.82*
180.1	181.0	30.97	7.45	24.21	2.50*
190.1	191.0	30.99	7.45	24.23	4.35
200.1	201.1	31.01	7.43	24.25	1.43*
210.1	211.1	31.01	7.43	24.26	.86*
220.1	221.2	31.02	7.42	24.26	1.60*
230.1	231.2	31.03	7.42	24.27	1.78*
240.2	241.4	31.04	7.42	24.28	1.81*
250.2	251.4	31.05	7.41	24.29	2.16*
260.1	261.3	31.07	7.40	24.30	2.43*
270.1	271.4	31.09	7.38	24.32	2.57*
280.1	281.5	31.09	7.36	24.33	1.48*
290.2	291.7	31.10	7.35	24.33	1.46*
300.1	301.6	31.10	7.34	24.33	+
310.0	311.6	31.11	7.34	24.34	1.38*
320.1	321.7	31.11	7.34	24.34	1.11*
330.1	331.7	31.11	7.34	24.34	.83*
340.1	341.8	31.11	7.35	24.34	.69*

MAX DEPTH 357.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 41.60  
 DATE 15/ 2/77  
 TIME (PST) 1451

TAPE CZ0/78/ 2- 9  
 LONG W125 47.20  
 PASS NO. 13  
 STN: 9 - KN5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	25.73	6.93	20.18	36.10
2.1	2.1	25.71	6.92	20.17	39.95
5.0	5.0	27.63	7.10	21.65	41.28
10.1	10.1	30.07	7.41	23.52	16.88
15.3	15.4	30.31	7.47	23.70	14.47
20.3	20.4	30.50	7.51	23.84	5.50*
25.0	25.2	30.53	7.51	23.87	3.97*
30.2	30.3	30.55	7.51	23.88	3.94*
35.2	35.3	30.58	7.51	23.91	3.79*
40.1	40.3	30.61	7.50	23.93	3.41*
45.3	45.5	30.63	7.50	23.94	3.69
50.0	50.2	30.64	7.50	23.96	4.39*
60.1	60.4	30.66	7.50	23.97	2.73*
70.0	70.3	30.71	7.52	24.00	2.40*
80.2	80.5	30.72	7.52	24.02	1.73*
90.1	90.5	30.74	7.53	24.03	1.94*
100.2	100.7	30.75	7.54	24.04	1.95*
110.2	110.7	30.77	7.54	24.05	2.05*
120.2	120.8	30.79	7.55	24.06	2.05*
130.0	130.6	30.80	7.55	24.07	1.46*
140.1	140.8	30.81	7.56	24.08	2.11*
150.3	151.0	30.85	7.55	24.11	4.01
160.1	160.8	30.86	7.55	24.12	1.40*
170.0	170.8	30.88	7.54	24.13	2.56*
180.1	180.9	30.91	7.54	24.16	2.67*
190.0	190.9	30.93	7.53	24.17	1.64*
200.2	201.1	30.93	7.53	24.18	1.69*
210.1	211.1	30.95	7.52	24.20	3.41
220.1	221.1	30.99	7.51	24.23	4.38*
230.2	231.4	31.06	7.47	24.29	2.92*
240.2	241.4	31.07	7.47	24.29	1.27*
250.3	251.5	31.08	7.46	24.30	1.60*
260.2	261.4	31.09	7.45	24.31	2.02*
270.1	271.4	31.10	7.44	24.32	2.39*
280.1	281.5	31.13	7.40	24.35	1.75*
290.2	291.6	31.13	7.40	24.35	2.21*
300.1	301.6	31.15	7.37	24.37	1.84*
310.1	311.7	31.15	7.37	24.37	1.82*
320.2	321.7	31.16	7.35	24.38	+

MAX DEPTH 324.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 41.60  
 DATE 16/ 2/77  
 TIME (PST) 1138

TAPE CZ0/78/ 2- 10  
 LONG W125 49.30  
 PASS NO. 5  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	25.29	6.85	19.84	50.04
2.1	2.1	25.24	6.85	19.81	12.41*
5.2	5.2	27.59	6.99	21.63	33.91
10.3	10.4	29.64	7.22	23.21	17.78
15.1	15.2	30.02	7.28	23.49	10.77
20.2	20.2	30.53	7.34	23.89	19.30*
25.2	25.3	30.55	7.36	23.90	3.10*
30.2	30.3	30.56	7.36	23.91	2.88*
35.2	35.4	30.58	7.36	23.93	3.35*
40.1	40.3	30.60	7.37	23.94	2.59*
45.0	45.2	30.61	7.37	23.95	1.79*
50.1	50.3	30.61	7.38	23.95	2.41*
60.1	60.4	30.65	7.40	23.97	2.54*
70.2	70.5	30.68	7.41	24.00	2.10*
80.1	80.4	30.71	7.43	24.02	2.15*
90.0	90.5	30.73	7.44	24.03	2.12*
100.0	100.5	30.74	7.46	24.04	1.71*
110.1	110.6	30.75	7.47	24.04	1.72*
120.1	120.6	30.78	7.48	24.06	1.98*
130.2	130.8	30.79	7.49	24.07	1.41*
140.1	140.7	30.80	7.49	24.08	1.92*
150.3	151.0	30.84	7.51	24.10	2.81*
160.1	160.8	30.86	7.50	24.13	2.66*
170.2	171.0	30.89	7.50	24.15	4.51
180.2	181.1	30.91	7.49	24.17	2.68*
190.1	191.0	30.95	7.46	24.20	3.94*
200.1	201.1	31.01	7.43	24.25	3.08*
210.3	211.3	31.01	7.42	24.26	1.25*
220.1	221.2	31.02	7.42	24.26	1.71*
230.1	231.2	31.03	7.41	24.27	1.28*
240.2	241.4	31.03	7.41	24.27	1.21*
250.2	251.4	31.04	7.40	24.28	1.60*
260.0	261.3	31.06	7.39	24.29	1.84*
270.1	271.4	31.06	7.39	24.30	.68*
280.0	281.4	31.06	7.37	24.30	.82*
290.1	291.5	31.07	7.38	24.30	1.20*
300.2	301.7	31.07	7.38	24.31	1.34*
310.1	311.6	31.08	7.36	24.31	1.90*
320.1	321.6	31.09	7.35	24.33	2.40

MAX DEPTH 322.5



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 41.10  
 DATE 16/ 2/77  
 TIME (PST) 1210

TAPE CZ0/78/ 2- 11  
 LONG W125 51.90  
 PASS NO. 7  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.57	7.07	21.61	26.66*
2.0	2.0	28.16	7.07	22.07	8.54*
5.0	5.0	28.85	7.11	22.60	22.60*
10.3	10.3	29.53	7.18	23.12	18.53*
15.2	15.3	29.76	7.20	23.31	14.47*
20.1	20.2	30.15	7.26	23.60	11.42
25.1	25.2	30.28	7.27	23.70	4.94*
30.1	30.2	30.31	7.28	23.72	4.48*
35.2	35.4	30.44	7.31	23.82	5.12*
40.2	40.3	30.50	7.32	23.87	5.39*
45.0	45.2	30.56	7.34	23.91	4.16*
50.1	50.3	30.57	7.35	23.92	3.14*
60.1	60.3	30.62	7.37	23.96	3.25*
70.1	70.5	30.67	7.39	23.99	2.49*
80.1	80.5	30.68	7.41	24.00	.56*
90.0	90.4	30.69	7.43	24.00	1.09*
100.3	100.7	30.70	7.44	24.01	2.52*
110.0	110.5	30.72	7.45	24.02	1.30*
120.3	120.8	30.73	7.47	24.03	1.57*
130.1	130.7	30.75	7.48	24.04	1.98*
140.1	140.8	30.75	7.48	24.04	1.01*
150.2	150.9	30.77	7.49	24.06	1.96*
160.1	160.8	30.78	7.49	24.06	1.35*
170.0	170.8	30.82	7.49	24.09	3.20*
180.2	181.1	30.85	7.49	24.12	3.21*
190.2	191.1	30.89	7.49	24.15	3.08*
200.1	201.0	30.90	7.48	24.16	1.35*
210.1	211.1	30.92	7.48	24.18	2.71*
220.0	221.1	30.97	7.46	24.22	3.41*
230.2	231.3	30.99	7.44	24.23	1.26*
240.0	241.2	31.00	7.45	24.24	1.50*
250.1	251.3	31.00	7.44	24.25	1.70
260.1	261.4	31.03	7.42	24.27	3.04*
270.3	271.6	31.05	7.41	24.29	1.19*
280.1	281.4	31.05	7.41	24.29	1.23*
290.1	291.5	31.07	7.40	24.30	2.21*
300.2	301.7	31.07	7.39	24.31	+

MAX DEPTH 300.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 40.70  
 DATE 16/ 2/77  
 TIME (PST) 1239

TAPE CZ0/78/ 2- 12  
 LONG W125 54.40  
 PASS NO. 9  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.18	7.23	22.06	21.39
2.0	2.1	28.51	7.18	22.33	19.78
5.1	5.2	29.41	7.21	23.03	20.07
10.1	10.1	30.06	7.29	23.53	15.75
15.0	15.1	30.29	7.33	23.70	9.88
20.1	20.2	30.41	7.35	23.80	4.85*
25.1	25.2	30.46	7.36	23.83	4.31*
30.1	30.2	30.49	7.37	23.85	4.27
35.0	35.2	30.54	7.38	23.89	4.25*
40.1	40.2	30.59	7.39	23.93	3.70*
45.2	45.4	30.59	7.40	23.93	2.29*
50.2	50.4	30.60	7.41	23.93	1.41*
60.1	60.4	30.68	7.43	24.00	5.10*
70.1	70.5	30.70	7.43	24.01	2.12*
80.1	80.4	30.71	7.44	24.02	1.20*
90.1	90.5	30.72	7.45	24.02	1.82*
100.1	100.6	30.73	7.45	24.03	2.04*
110.1	110.6	30.75	7.46	24.04	1.49*
120.1	120.6	30.75	7.47	24.04	1.53*
130.2	130.8	30.77	7.47	24.06	1.92*
140.2	140.8	30.78	7.47	24.07	1.37*
150.1	150.8	30.79	7.47	24.07	1.81*
160.1	160.9	30.81	7.47	24.09	2.58*
170.1	170.9	30.82	7.47	24.09	1.52*
180.2	181.0	30.83	7.48	24.11	2.78*
190.1	191.0	30.86	7.48	24.13	2.50*
200.0	201.0	30.90	7.47	24.16	2.23*
210.2	211.2	30.92	7.46	24.18	2.44*
220.2	221.2	30.94	7.47	24.19	2.34*
230.2	231.3	30.98	7.46	24.22	1.71*
240.1	241.2	30.98	7.47	24.22	1.62*
250.2	251.4	30.99	7.46	24.23	1.37*
260.0	261.3	31.00	7.46	24.24	.56*
270.1	271.4	31.01	7.46	24.25	1.90*
280.2	281.5	31.02	7.46	24.25	.82*
290.1	291.5	31.03	7.45	24.26	1.98*
300.1	301.6	31.04	7.44	24.28	1.97*
310.1	311.6	31.05	7.44	24.28	1.22*
320.1	321.6	31.05	7.44	24.28	1.46*
330.1	331.6	31.06	7.44	24.29	2.29*
340.2	341.8	31.08	7.42	24.31	1.57*

MAX DEPTH 352.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 40.80  
 DATE 15/ 2/77  
 TIME (PST) 1541

TAPE CZ0/78/ 2- 13  
 LONG W125 56.30  
 PASS NO. 15  
 STN: 13 - KN4

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.38	7.07	21.46	+
2.1	2.1	27.53	7.08	21.58	19.74
5.0	5.0	28.93	7.25	22.65	20.41
10.3	10.3	29.32	7.29	22.95	20.85
15.3	15.3	30.28	7.44	23.68	5.06
20.2	20.3	30.47	7.46	23.83	6.35
25.2	25.3	30.57	7.48	23.90	4.53
30.0	30.2	30.61	7.49	23.93	4.10*
35.3	35.5	30.63	7.50	23.94	2.30*
40.2	40.4	30.63	7.50	23.95	2.72*
45.3	45.5	30.65	7.50	23.96	3.21*
50.1	50.4	30.67	7.51	23.98	3.20*
60.1	60.4	30.71	7.51	24.00	2.96*
70.2	70.5	30.74	7.52	24.02	2.93*
80.0	80.4	30.77	7.53	24.05	2.40*
90.2	90.6	30.79	7.53	24.06	2.26*
100.1	100.6	30.82	7.54	24.09	2.10*
110.0	110.5	30.82	7.54	24.09	1.88*
120.0	120.6	30.85	7.56	24.11	1.90*
130.2	130.8	30.86	7.55	24.12	2.00*
140.1	140.8	30.88	7.54	24.14	2.72*
150.3	151.0	30.90	7.53	24.16	4.22
160.2	160.9	30.96	7.52	24.20	3.06*
170.1	170.9	30.97	7.52	24.21	1.93*
180.0	180.9	30.98	7.52	24.21	2.28*
190.3	191.2	31.01	7.50	24.24	1.90*
200.2	201.1	31.02	7.50	24.25	1.86*
210.2	211.2	31.04	7.50	24.27	1.55*
220.0	221.1	31.05	7.49	24.27	1.84*
230.2	231.3	31.06	7.49	24.28	1.91*
240.2	241.4	31.08	7.48	24.30	1.97*
250.2	251.4	31.09	7.47	24.31	2.00*
260.2	261.5	31.10	7.47	24.32	1.45*
270.1	271.4	31.10	7.46	24.32	1.00*
280.1	281.5	31.10	7.46	24.32	.77*
290.0	291.4	31.11	7.46	24.32	.65*
300.2	301.7	31.11	7.46	24.32	1.18*
310.1	311.7	31.11	7.45	24.33	1.47*
320.3	321.9	31.11	7.45	24.33	1.04*
330.3	331.9	31.12	7.45	24.33	.84*
340.1	341.8	31.12	7.45	24.34	.68*
360.0	361.8	31.12	7.45	24.33	+
380.2	382.1	31.12	7.45	24.33	+

MAX DEPTH 380.5



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 16/ 2/77  
 TIME (PST) 1316

TAPE CZ0/78/ 2- 14  
 LONG W125 57.20  
 PASS NO. 11  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.73	7.27	22.49	11.47
2.2	2.2	28.91	7.24	22.63	13.83
5.0	5.0	29.12	7.27	22.79	9.54
10.0	10.1	29.84	7.35	23.34	20.10
15.1	15.2	30.14	7.39	23.58	6.86
20.1	20.2	30.24	7.40	23.65	6.50
25.2	25.3	30.47	7.43	23.83	5.70
30.3	30.4	30.53	7.44	23.88	4.86
35.0	35.2	30.58	7.44	23.91	3.65*
40.2	40.4	30.59	7.44	23.92	4.38
45.2	45.4	30.65	7.46	23.97	5.33*
50.3	50.5	30.68	7.46	23.99	3.09*
60.1	60.4	30.70	7.47	24.01	2.57
70.2	70.5	30.76	7.48	24.05	3.81*
80.2	80.6	30.79	7.48	24.07	4.49*
90.3	90.7	30.83	7.49	24.11	2.39*
100.1	100.6	30.85	7.49	24.11	1.18*
110.1	110.6	30.85	7.50	24.12	1.59*
120.3	120.8	30.87	7.50	24.13	2.08*
130.2	130.8	30.88	7.50	24.14	1.57*
140.0	140.7	30.89	7.50	24.15	3.70
150.3	151.0	30.92	7.49	24.17	2.57*
160.0	160.8	30.95	7.48	24.19	2.74*
170.1	170.9	30.99	7.47	24.23	3.73*
180.0	180.9	31.03	7.46	24.26	3.05*
190.1	191.0	31.05	7.45	24.28	1.74*
200.2	201.2	31.07	7.44	24.30	2.27*
210.2	211.3	31.08	7.43	24.31	2.02*
220.1	221.2	31.09	7.43	24.32	1.63*
230.1	231.2	31.10	7.42	24.32	.90*
240.1	241.3	31.10	7.42	24.32	.87*
250.2	251.4	31.10	7.42	24.33	.82*
260.1	261.4	31.10	7.42	24.32	.77*
270.1	271.4	31.10	7.42	24.33	.56*
280.0	281.4	31.10	7.42	24.33	.76*
290.0	291.4	31.11	7.43	24.33	.62*
300.2	301.6	31.11	7.43	24.33	.56*
310.1	311.7	31.11	7.43	24.33	.62*
320.2	321.8	31.11	7.43	24.33	+
330.1	331.7	31.11	7.43	24.33	.79*
340.0	341.7	31.11	7.44	24.33	.41*

MAX DEPTH 345.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 16/ 2/77  
 TIME (PST) 1343

TAPE CZ0/78/ 2- 15  
 LONG W125 59.50  
 PASS NO. 13

STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.41	7.37	22.23	6.94
2.0	2.1	28.76	7.25	22.51	28.10
5.1	5.1	30.17	7.36	23.61	32.93
10.1	10.1	30.50	7.41	23.85	6.09*
15.2	15.3	30.58	7.42	23.91	6.16*
20.1	20.2	30.63	7.44	23.95	4.71*
25.1	25.2	30.65	7.44	23.97	3.22*
30.1	30.3	30.67	7.46	23.98	6.29
35.3	35.5	30.71	7.46	24.02	4.16*
40.2	40.4	30.73	7.46	24.03	3.02*
45.0	45.2	30.74	7.47	24.04	3.49*
50.1	50.4	30.78	7.47	24.07	4.03
60.1	60.4	30.81	7.48	24.09	2.02
70.2	70.5	30.83	7.49	24.10	+

MAX DEPTH 72.5

CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 39.90  
 DATE 15/ 2/77  
 TIME (PST) 1634

TAPE CZ0/78/ 2- 16  
 LONG W126 4.20  
 PASS NO. 17

STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.77	7.24	22.52	67.16*
2.3	2.3	28.78	7.25	22.53	54.01*
5.1	5.1	28.80	7.25	22.54	34.28*
10.0	10.1	29.83	7.37	23.33	17.12
15.2	15.2	30.42	7.45	23.79	12.80
20.1	20.2	30.53	7.46	23.87	5.82
25.2	25.3	30.58	7.47	23.91	4.73
30.3	30.4	30.61	7.47	23.93	3.34*
35.3	35.4	30.62	7.47	23.94	2.37*
40.2	40.4	30.63	7.48	23.95	3.78*
45.0	45.2	30.68	7.49	23.98	4.54*
50.3	50.5	30.71	7.51	24.00	4.31*
60.2	60.4	30.78	7.54	24.06	4.21*
70.0	70.3	30.78	7.54	24.06	1.45*
80.2	80.5	30.80	7.54	24.07	1.58*
90.3	90.7	30.81	7.54	24.08	1.37*
100.3	100.8	30.82	7.55	24.09	2.12*
110.1	110.6	30.85	7.58	24.11	2.28*
120.2	120.8	30.87	7.59	24.12	1.20*
130.1	130.7	30.87	7.59	24.12	1.31*
140.2	140.9	30.88	7.60	24.13	1.51*
150.1	150.8	30.89	7.60	24.14	.96*
160.2	161.0	30.90	7.59	24.14	1.54*
170.1	170.9	30.91	7.60	24.15	3.73*

MAX DEPTH 173.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 39.20  
 DATE 16/ 2/77  
 TIME (PST) 1454

TAPE CZ0/78/ 2- 17  
 LONG W126 12.50  
 PASS NO. 17  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.86	7.32	22.58	16.43
2.3	2.3	29.24	7.18	22.90	22.59
5.1	5.1	29.76	7.20	23.30	17.18
10.0	10.1	30.02	7.22	23.50	7.13
15.1	15.2	30.18	7.25	23.63	10.67
20.1	20.2	30.47	7.29	23.84	8.84*
25.1	25.2	30.49	7.29	23.86	3.00*
30.1	30.3	30.51	7.30	23.87	3.94
35.2	35.3	30.60	7.31	23.95	8.13*
40.0	40.2	30.63	7.32	23.97	3.99*
45.2	45.4	30.66	7.33	23.99	3.69*
50.2	50.4	30.69	7.34	24.01	3.41*
60.0	60.3	30.73	7.35	24.04	3.20
70.2	70.5	30.76	7.38	24.06	2.42*
80.2	80.6	30.77	7.38	24.07	1.19*
90.2	90.6	30.78	7.38	24.07	2.33*
100.1	100.6	30.81	7.40	24.10	2.03*
110.3	110.8	30.82	7.41	24.11	2.05*
120.2	120.7	30.85	7.43	24.12	2.81*
130.3	130.9	30.87	7.45	24.14	1.95*
140.1	140.8	30.89	7.44	24.16	1.43*
150.2	150.9	30.89	7.44	24.16	.70*
160.1	160.9	30.91	7.45	24.17	2.05*
170.1	170.9	30.92	7.46	24.18	1.48*
180.1	181.0	30.92	7.47	24.18	1.39*
190.5	191.4	30.94	7.51	24.18	1.02*

MAX DEPTH 199.8



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 38.50  
 DATE 16/ 2/77  
 TIME (PST) 1524

TAPE CZ0/78/ 2- 18  
 LONG W126 17.30  
 PASS NO. 19

STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.55	7.55	23.10	19.17
2.0	2.0	29.68	7.32	23.22	13.24
5.1	5.1	29.78	7.29	23.31	11.02
10.0	10.1	30.06	7.31	23.52	5.45
15.2	15.2	30.11	7.32	23.56	5.51
20.1	20.2	30.16	7.33	23.60	5.82*
25.1	25.2	30.22	7.34	23.64	6.42
30.2	30.3	30.36	7.37	23.75	5.95
35.2	35.4	30.47	7.39	23.83	7.69
40.0	40.2	30.57	7.42	23.91	6.43
45.1	45.3	30.65	7.44	23.97	5.55
50.3	50.5	30.71	7.46	24.01	4.63*
60.2	60.5	30.76	7.49	24.05	2.51*
70.1	70.4	30.78	7.49	24.06	2.60*
80.0	80.4	30.82	7.51	24.09	2.47*
90.1	90.5	30.83	7.52	24.10	1.55*
100.0	100.5	30.84	7.53	24.11	1.30*
110.2	110.7	30.84	7.54	24.11	1.23*
120.2	120.7	30.86	7.55	24.12	1.67*
130.2	130.8	30.87	7.55	24.13	1.60*
140.2	140.9	30.88	7.55	24.13	1.44*
150.2	150.9	30.89	7.55	24.14	1.22*
160.0	160.8	30.90	7.56	24.15	1.10*
170.1	170.9	30.91	7.57	24.15	2.45*
180.2	181.0	30.95	7.58	24.19	2.15*
190.1	191.0	30.95	7.58	24.19	.66*
200.1	201.1	30.96	7.58	24.19	1.05*
210.3	211.3	30.97	7.59	24.20	1.40*
220.1	221.2	30.97	7.59	24.20	1.56*
230.2	231.3	30.98	7.60	24.21	.90*

MAX DEPTH 236.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 38.10  
 DATE 16/ 2/77  
 TIME (PST) 1609

TAPE C20/78/ 2- 19  
 LONG W126 25.20  
 PASS NO. 21  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.66	7.41	23.20	6.89
2.2	2.2	29.64	7.42	23.18	2.31*
5.1	5.1	29.69	7.36	23.22	5.99
10.2	10.2	29.80	7.28	23.33	5.08
15.1	15.2	29.94	7.27	23.43	6.86
20.2	20.3	30.04	7.29	23.51	5.69
25.2	25.3	30.22	7.31	23.65	13.25
30.2	30.3	30.33	7.35	23.73	4.85*
35.0	35.2	30.36	7.36	23.76	4.83*
40.3	40.4	30.45	7.39	23.82	5.16*
45.1	45.3	30.49	7.39	23.85	5.51*
50.3	50.5	30.58	7.42	23.92	4.39
60.3	60.5	30.67	7.45	23.99	4.94*
70.3	70.7	30.70	7.46	24.00	1.82*
80.3	80.6	30.71	7.49	24.01	2.20*
90.3	90.7	30.72	7.50	24.02	2.63*
100.2	100.6	30.76	7.50	24.05	2.14*
110.2	110.7	30.78	7.51	24.06	2.23*
120.4	120.9	30.80	7.53	24.08	4.08*
130.1	130.7	30.86	7.56	24.12	2.63*
140.1	140.7	30.88	7.56	24.13	1.72*
150.2	150.9	30.88	7.57	24.13	1.04*
160.2	160.9	30.89	7.57	24.14	1.40*
170.2	171.0	30.90	7.58	24.15	1.73*
180.1	181.0	30.91	7.58	24.15	2.45*
190.1	191.0	30.95	7.59	24.18	2.09*
200.3	201.2	30.95	7.59	24.19	.41*
210.2	211.2	30.95	7.59	24.18	.60*
220.0	221.0	30.96	7.59	24.19	1.56*

MAX DEPTH 223.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 1 KNIGHT INLET 1977  
 LAT N50 39.90  
 DATE 16/ 2/77  
 TIME (PST) 1409

TAPE CZ0/78/ 2- 20  
 LONG W126 4.20  
 PASS NO. 15  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.49	7.38	22.29	+
2.0	2.1	28.58	7.25	22.38	19.45
5.0	5.0	29.76	7.28	23.29	14.72
10.0	10.0	30.24	7.33	23.66	11.48
15.1	15.2	30.46	7.35	23.83	10.44
20.3	20.4	30.50	7.35	23.87	4.60
25.0	25.2	30.56	7.36	23.91	6.21*
30.1	30.3	30.64	7.39	23.97	5.23*
35.1	35.2	30.65	7.38	23.98	3.64*
40.1	40.3	30.67	7.39	23.99	2.27*
45.2	45.4	30.67	7.39	24.00	2.20*
50.1	50.3	30.69	7.40	24.01	2.26*
60.2	60.5	30.71	7.40	24.02	3.45*
70.0	70.3	30.77	7.42	24.07	3.44*
80.1	80.5	30.80	7.43	24.09	1.93*
90.3	90.7	30.82	7.44	24.11	1.89*
100.1	100.5	30.83	7.44	24.11	1.64*
110.0	110.6	30.84	7.44	24.11	1.26*
120.0	120.6	30.85	7.44	24.12	1.78*
130.2	130.9	30.86	7.44	24.13	.80*
140.2	140.9	30.86	7.44	24.13	1.44*
150.0	150.7	30.88	7.45	24.14	2.15*
160.2	161.0	30.89	7.45	24.16	1.25*
170.1	170.9	30.90	7.45	24.16	1.88*
180.2	181.1	30.91	7.45	24.17	2.45*

MAX DEPTH 188.1





CRUISE NO. 2





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N51 2.30  
 DATE 22/ 3/77  
 TIME (PST) 1017

TAPE CZ0/78/ 2- 21  
 LONG W125 33.80  
 PASS NO. 1  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.00	5.99	.04	218.97
2.1	2.1	21.52	6.62	16.92	103.38
5.1	5.1	24.19	6.77	19.00	71.83
10.0	10.1	29.03	7.41	22.71	22.66
15.1	15.2	29.77	7.53	23.26	17.43
20.2	20.3	30.07	7.41	23.52	6.99
25.3	25.4	30.23	7.35	23.65	4.49
30.1	30.2	30.29	7.33	23.70	6.07
35.1	35.2	30.39	7.34	23.78	6.25
40.1	40.2	30.45	7.33	23.83	6.04*
45.2	45.4	30.49	7.40	23.85	4.13*
50.3	50.5	30.54	7.55	23.87	3.64*
60.1	60.4	30.56	7.44	23.89	3.12*
70.2	70.5	30.59	7.41	23.93	2.71*
80.3	80.7	30.60	7.36	23.94	2.10*
90.2	90.6	30.62	7.35	23.95	2.20*
100.3	100.7	30.66	7.44	23.97	2.61*
110.1	110.6	30.67	7.44	23.99	2.48*
120.0	120.6	30.70	7.48	24.00	2.68*
130.1	130.7	30.72	7.39	24.03	2.78*
140.3	140.9	30.73	7.34	24.05	2.33*
150.2	150.9	30.74	7.33	24.06	2.50*
160.1	160.8	30.78	7.28	24.09	2.57*
170.1	170.9	30.79	7.25	24.10	2.48*
180.1	180.9	30.82	7.24	24.12	3.14*
190.0	190.9	30.86	7.23	24.16	

MAX DEPTH 191.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 58.90  
 DATE 22/ 3/77  
 TIME (PST) 1135

TAPE CZ0/78/ 2- 22  
 LONG W125 33.20  
 PASS NO. 3  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	18.38	6.44	14.48	66.86
2.2	2.2	22.67	6.65	17.82	75.90
5.1	5.1	27.77	7.25	21.74	52.46
10.1	10.1	29.60	7.53	23.14	15.96
15.1	15.2	30.04	7.57	23.47	13.45
20.2	20.2	30.23	7.57	23.62	9.72
25.1	25.2	30.31	7.52	23.69	5.98
30.1	30.2	30.38	7.43	23.76	7.49*
35.2	35.3	30.42	7.36	23.80	5.02
40.1	40.3	30.47	7.45	23.83	5.16
45.1	45.3	30.52	7.52	23.86	4.32*
50.2	50.4	30.55	7.54	23.87	3.50*
60.1	60.4	30.57	7.47	23.90	2.71*
70.1	70.4	30.62	7.62	23.92	2.66*
80.1	80.5	30.64	7.54	23.94	3.57
90.2	90.6	30.67	7.62	23.96	1.83*
100.0	100.5	30.66	7.47	23.97	2.12*
110.2	110.7	30.68	7.45	23.99	2.22*
120.1	120.6	30.69	7.43	24.00	2.31*
130.2	130.8	30.71	7.42	24.02	2.20*
140.1	140.8	30.74	7.39	24.04	2.48*
150.1	150.8	30.74	7.33	24.06	2.79*
160.0	160.8	30.77	7.29	24.08	2.42*
170.1	170.9	30.79	7.25	24.10	2.99*
180.2	181.0	30.82	7.22	24.13	2.78*
190.2	191.1	30.85	7.21	24.15	3.08*
200.2	201.1	30.87	7.21	24.17	4.03*
210.1	211.1	30.89	7.21	24.19	2.53*
220.2	221.3	30.92	7.21	24.21	2.57*
230.1	231.2	30.94	7.21	24.23	2.37*
240.1	241.2	30.97	7.22	24.25	2.29*
250.2	251.4	30.98	7.22	24.26	1.81*
260.1	261.3	30.99	7.22	24.27	1.42*
270.0	271.3	31.00	7.22	24.27	1.42*
280.0	281.4	31.01	7.22	24.28	1.86*
290.1	291.5	31.03	7.23	24.29	2.81

MAX DEPTH 298.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 54.30  
 DATE 22/ 3/77  
 TIME (PST) 1234

TAPE CZ0/78/ 2- 23  
 LONG W125 32.80  
 PASS NO. 5  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	19.26	6.61	15.15	48.18
2.0	2.0	21.95	6.84	17.23	55.89
5.0	5.0	25.53	7.12	20.01	68.28
10.1	10.2	28.89	7.38	22.60	19.53
15.2	15.3	29.94	7.47	23.41	17.88
20.1	20.2	30.12	7.50	23.55	7.64
25.2	25.3	30.25	7.56	23.64	11.17
30.0	30.1	30.38	7.57	23.74	6.56*
35.2	35.3	30.45	7.57	23.80	4.91
40.1	40.3	30.49	7.58	23.83	4.67
45.1	45.3	30.53	7.57	23.86	3.95*
50.1	50.3	30.55	7.59	23.87	3.81
60.0	60.3	30.60	7.60	23.90	2.28*
70.2	70.5	30.63	7.61	23.93	2.35*
80.1	80.4	30.64	7.62	23.94	1.83*
90.1	90.5	30.68	7.63	23.96	2.35*
100.1	100.6	30.69	7.62	23.98	2.14*
110.1	110.6	30.69	7.56	23.99	1.57*
120.3	120.8	30.71	7.50	24.01	2.52*
130.1	130.7	30.73	7.57	24.02	1.65*
140.1	140.8	30.73	7.44	24.03	2.69*
150.2	150.9	30.76	7.37	24.06	2.73
160.1	160.8	30.77	7.33	24.08	2.73*
170.2	171.0	30.78	7.26	24.10	2.60*
180.0	180.9	30.81	7.23	24.12	3.33*
190.1	190.9	30.86	7.21	24.16	2.68*
200.2	201.1	30.88	7.22	24.18	2.26*
210.1	211.1	30.91	7.22	24.20	2.45*
220.0	221.1	30.93	7.21	24.22	2.32*
230.3	231.4	30.95	7.21	24.23	2.54*
240.1	241.3	30.97	7.21	24.25	1.74*
250.0	251.2	30.98	7.21	24.26	1.76*
260.1	261.4	30.99	7.21	24.27	1.64*
270.2	271.5	31.00	7.21	24.27	1.19*
280.1	281.5	31.01	7.22	24.28	1.66*
290.0	291.4	31.03	7.22	24.29	2.11*
300.1	301.6	31.05	7.23	24.31	2.18*
310.1	311.6	31.06	7.23	24.32	2.05*
320.1	321.6	31.08	7.24	24.33	1.94*
330.2	331.8	31.10	7.25	24.34	2.21*
340.1	341.8	31.11	7.25	24.36	2.12*
360.1	361.9	31.15	7.27	24.38	2.35*

MAX DEPTH 368.5



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 52.40  
 DATE 22/ 3/77  
 TIME (PST) 1317

TAPE CZ0/78/ 2- 24  
 LONG W125 38.50  
 PASS NO. 7  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	22.82	6.70	17.93	17.29
2.1	2.1	23.82	6.76	18.71	54.75
5.3	5.3	28.16	7.15	22.05	28.93
10.3	10.3	29.60	7.32	23.16	14.07
15.3	15.4	30.10	7.41	23.55	13.40*
20.3	20.4	30.23	7.44	23.64	7.05
25.1	25.2	30.34	7.49	23.72	5.21
30.0	30.1	30.41	7.51	23.77	4.06*
35.1	35.2	30.44	7.53	23.79	4.01*
40.3	40.4	30.47	7.52	23.81	3.81*
45.2	45.4	30.49	7.53	23.83	3.60*
50.3	50.5	30.52	7.56	23.85	4.90
60.2	60.4	30.60	7.61	23.91	3.82*
70.2	70.5	30.63	7.61	23.93	2.61*
80.1	80.4	30.66	7.62	23.95	2.31*
90.3	90.8	30.68	7.60	23.97	2.01*
100.3	100.7	30.69	7.63	23.98	2.15*
110.1	110.6	30.71	7.62	23.99	1.94*
120.1	120.6	30.73	7.63	24.01	2.18*
130.0	130.6	30.76	7.64	24.03	2.22*
140.2	140.8	30.77	7.63	24.03	2.30*
150.3	151.0	30.79	7.55	24.06	3.17*
160.1	160.9	30.80	7.41	24.09	3.15*
170.0	170.8	30.83	7.34	24.12	3.54*
180.1	180.9	30.86	7.28	24.15	2.86*
190.3	191.2	30.88	7.26	24.17	2.39*
200.2	201.2	30.91	7.27	24.19	2.69*
210.2	211.2	30.94	7.31	24.21	2.70*
220.1	221.1	30.96	7.30	24.23	2.05*
230.1	231.2	30.97	7.31	24.23	1.42*
240.2	241.4	30.98	7.32	24.24	2.96
250.2	251.4	30.99	7.24	24.26	2.09*
260.2	261.4	31.00	7.25	24.27	1.58*
270.2	271.5	31.01	7.25	24.27	1.76*
280.3	281.6	31.02	7.23	24.28	1.24*
290.1	291.5	31.03	7.23	24.29	2.11*
300.2	301.7	31.04	7.23	24.30	1.83*
310.3	311.8	31.06	7.24	24.31	2.16*
320.1	321.7	31.08	7.24	24.33	2.47*
330.3	331.9	31.10	7.25	24.34	2.21*
340.2	341.8	31.11	7.25	24.36	2.19*
360.2	362.0	31.15	7.27	24.38	1.80*
380.2	382.0	31.17	7.28	24.39	1.59*
400.1	402.1	31.19	7.29	24.41	1.21*
420.1	422.2	31.20	7.29	24.42	

MAX DEPTH 431.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 47.90  
 DATE 22/ 3/77  
 TIME (PST) 1412

TAPE CZ0/78/ 2- 25  
 LONG W125 37.00  
 PASS NO. 9  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.42	6.59	19.19	52.31
2.6	2.6	23.71	6.80	18.61	13.33*
5.1	5.1	24.99	6.86	19.61	34.66
10.1	10.2	29.06	7.22	22.75	17.01
15.0	15.1	29.89	7.39	23.38	18.49
20.2	20.3	30.12	7.38	23.56	7.14
25.2	25.3	30.25	7.41	23.66	10.53
30.1	30.2	30.36	7.45	23.74	7.28*
35.3	35.4	30.45	7.49	23.80	6.83
40.2	40.4	30.50	7.51	23.84	5.47*
45.1	45.3	30.52	7.52	23.86	3.73*
50.2	50.4	30.56	7.52	23.89	3.55*
60.3	60.6	30.60	7.53	23.92	3.21*
70.1	70.5	30.63	7.54	23.94	3.75*
80.1	80.5	30.65	7.54	23.95	1.72*
90.0	90.5	30.66	7.57	23.96	2.09*
100.3	100.7	30.68	7.58	23.98	2.53*
110.3	110.8	30.72	7.60	24.00	2.73*
120.3	120.9	30.74	7.62	24.02	2.44*
130.3	130.9	30.77	7.62	24.04	2.26*
140.3	141.0	30.77	7.53	24.05	2.36*
150.1	150.8	30.79	7.52	24.07	3.35*
160.2	161.0	30.84	7.40	24.12	4.62
170.1	170.9	30.86	7.40	24.14	2.04*
180.1	181.0	30.88	7.40	24.15	2.03*
190.1	190.9	30.89	7.39	24.17	3.48
200.2	201.1	30.95	7.44	24.20	2.64*
210.0	211.0	30.96	7.44	24.22	2.40
220.1	221.2	30.98	7.42	24.23	2.73*
230.2	231.3	30.99	7.37	24.25	1.33*
240.3	241.4	31.00	7.36	24.26	2.18*
250.3	251.5	31.02	7.35	24.27	1.52*
260.3	261.5	31.02	7.34	24.27	1.30*
270.2	271.5	31.03	7.32	24.28	1.96*
280.2	281.5	31.03	7.30	24.29	1.73*
290.2	291.6	31.05	7.31	24.30	1.76*
300.2	301.6	31.05	7.29	24.30	1.89*
310.2	311.7	31.07	7.27	24.32	2.07*
320.1	321.6	31.08	7.27	24.33	2.09*
330.2	331.8	31.09	7.27	24.34	1.44*
340.1	341.8	31.11	7.27	24.35	2.88*
360.1	361.9	31.17	7.29	24.39	2.06*
380.2	382.1	31.19	7.30	24.41	1.11*
400.2	402.2	31.19	7.31	24.41	.98*
420.1	422.1	31.20	7.31	24.42	1.03*
440.0	442.2	31.20	7.31	24.42	

MAX DEPTH 444.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 45.10  
 DATE 22/ 3/77  
 TIME (PST) 1454

TAPE CZ0/78/ 2- 26  
 LONG W125 41.00  
 PASS NO. 11  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.36	6.68	19.13	30.62
2.1	2.1	25.46	6.78	19.99	42.57
5.1	5.1	27.92	7.05	21.88	31.76
10.0	10.0	29.43	7.24	23.04	24.52
15.1	15.2	29.91	7.33	23.40	9.37*
20.0	20.1	29.93	7.33	23.42	9.86
25.0	25.1	30.30	7.43	23.70	6.69
30.2	30.3	30.37	7.45	23.75	6.38*
35.2	35.3	30.45	7.47	23.81	5.82
40.2	40.4	30.51	7.44	23.86	6.03*
45.2	45.4	30.53	7.45	23.88	3.01*
50.1	50.3	30.55	7.46	23.89	2.46*
60.1	60.4	30.58	7.47	23.91	1.63*
70.2	70.5	30.59	7.48	23.92	1.70*
80.3	80.6	30.62	7.48	23.94	1.48*
90.3	90.7	30.62	7.49	23.93	1.63*
100.0	100.5	30.65	7.51	23.96	2.27*
110.2	110.7	30.67	7.53	23.97	2.28*
120.0	120.6	30.70	7.55	23.99	2.22*
130.3	130.9	30.71	7.58	24.00	5.40
140.3	140.9	30.75	7.61	24.02	3.03
150.3	151.0	30.78	7.61	24.05	2.60*
160.3	161.1	30.79	7.60	24.06	1.62*
170.0	170.8	30.81	7.59	24.07	2.14*
180.1	180.9	30.81	7.57	24.08	1.18*
190.2	191.1	30.83	7.53	24.10	2.09*
200.3	201.2	30.88	7.50	24.14	3.44
210.2	211.2	30.91	7.46	24.17	2.97*
220.1	221.1	30.92	7.47	24.17	2.34*
230.3	231.4	30.95	7.46	24.20	2.83*
240.0	241.2	30.97	7.45	24.21	2.79*
250.2	251.4	31.00	7.43	24.24	2.07*
260.2	261.5	31.01	7.42	24.26	2.42*
270.2	271.5	31.03	7.40	24.27	1.74*
280.2	281.6	31.04	7.39	24.28	1.26*
290.3	291.7	31.05	7.38	24.29	1.70*
300.2	301.6	31.05	7.36	24.30	1.89*
310.3	311.8	31.06	7.35	24.30	1.31*
320.2	321.7	31.07	7.31	24.32	3.33*
330.1	331.7	31.08	7.29	24.33	1.89*
340.0	341.7	31.09	7.29	24.34	1.53*
360.2	362.0	31.12	7.30	24.36	2.47*
380.0	381.9	31.19	7.08	24.44	3.74*
400.1	402.1	31.19	7.31	24.41	+
420.3	422.3	31.20	7.31	24.42	.83*
440.0	442.2	31.21	7.31	24.42	

MAX DEPTH 442.7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 41.90  
 DATE 23/ 3/77  
 TIME (PST) 0940

TAPE CZ0/78/ 2- 27  
 LONG W125 43.50  
 PASS NO. 17  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	17.93	5.87	14.18	123.90
2.1	2.1	23.74	6.45	18.67	70.21
5.0	5.0	26.33	6.91	20.65	64.02
10.0	10.0	29.84	7.32	23.35	21.23
15.1	15.1	30.04	7.36	23.50	12.90
20.2	20.3	30.29	7.40	23.70	11.66
25.2	25.3	30.43	7.42	23.80	8.68
30.2	30.3	30.46	7.43	23.82	3.30*
35.1	35.2	30.46	7.43	23.82	3.39
40.2	40.4	30.52	7.45	23.86	4.90
45.1	45.3	30.54	7.45	23.88	4.03*
50.0	50.3	30.56	7.46	23.89	2.27*
60.2	60.4	30.58	7.46	23.91	2.73*
70.2	70.5	30.60	7.47	23.92	2.27*
80.1	80.4	30.60	7.47	23.93	1.52*
90.0	90.4	30.63	7.48	23.95	2.74*
100.0	100.5	30.66	7.50	23.97	2.84*
110.1	110.6	30.70	7.55	24.00	1.99*
120.2	120.8	30.72	7.57	24.01	1.69*
130.2	130.8	30.73	7.58	24.01	.64*
140.2	140.9	30.73	7.58	24.02	1.40*
150.2	150.8	30.76	7.59	24.04	3.23*
160.1	160.9	30.78	7.59	24.05	1.78
170.2	171.0	30.81	7.57	24.08	3.06*
180.1	180.9	30.84	7.55	24.10	4.20*
190.0	190.9	30.86	7.53	24.12	4.64*
200.0	201.0	30.89	7.51	24.15	2.54*
210.2	211.2	30.91	7.50	24.16	3.82
220.2	221.2	30.94	7.49	24.19	3.22
230.1	231.2	30.97	7.46	24.22	2.87*
240.1	241.3	30.98	7.46	24.23	1.39*
250.2	251.4	30.99	7.45	24.24	1.86*
260.1	261.3	31.00	7.45	24.24	1.90*
270.0	271.3	31.03	7.43	24.26	2.98*
280.0	281.4	31.04	7.41	24.28	2.47*
290.2	291.6	31.07	7.40	24.30	2.42*
300.1	301.6	31.08	7.38	24.32	2.51*
310.2	311.7	31.11	7.37	24.34	2.29*
320.0	321.6	31.12	7.36	24.35	3.10*
330.2	331.8	31.16	7.33	24.38	2.08*
340.0	341.7	31.18	7.32	24.40	2.56*

MAX DEPTH 348.3



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 41.70  
 DATE 23/ 3/77  
 TIME (PST) 1017

TAPE CZ0/78/ 2- 28  
 LONG W125 46.60  
 PASS NO. 19  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.04	6.53	18.91	80.03
2.1	2.1	27.29	6.87	21.41	59.61
5.2	5.2	29.06	7.21	22.76	7.50
10.2	10.2	29.66	7.29	23.21	10.79
15.1	15.1	30.12	7.36	23.56	5.79
20.0	20.1	30.21	7.37	23.63	7.21*
25.1	25.2	30.34	7.39	23.73	7.81*
30.2	30.3	30.42	7.41	23.80	5.87*
35.2	35.3	30.46	7.41	23.82	3.82*
40.1	40.2	30.48	7.42	23.84	3.56*
45.2	45.4	30.50	7.43	23.85	3.32*
50.0	50.2	30.52	7.43	23.87	2.68*
60.1	60.4	30.54	7.44	23.88	2.30*
70.1	70.4	30.57	7.45	23.90	2.56*
80.2	80.6	30.59	7.45	23.92	2.19*
90.2	90.6	30.61	7.46	23.93	1.65*
100.1	100.6	30.62	7.46	23.94	1.82*
110.1	110.6	30.64	7.48	23.96	2.25*
120.0	120.6	30.66	7.49	23.97	2.06*
130.1	130.6	30.67	7.49	23.98	2.03*
140.0	140.7	30.69	7.50	23.99	1.71*
150.3	151.0	30.70	7.51	24.00	1.36*
160.3	161.0	30.71	7.52	24.01	2.69*
170.1	170.9	30.75	7.51	24.04	3.01*
180.3	181.1	30.77	7.52	24.05	5.71
190.3	191.2	30.81	7.54	24.08	1.66*
200.1	201.0	30.81	7.54	24.08	1.87*
210.0	211.0	30.85	7.55	24.11	4.33
220.2	221.2	30.93	7.48	24.18	5.46*
230.2	231.3	30.99	7.44	24.23	3.92*
240.3	241.4	31.03	7.42	24.27	3.00*
250.2	251.4	31.04	7.41	24.28	1.50*
260.2	261.4	31.05	7.41	24.28	1.51*
270.2	271.5	31.06	7.40	24.29	.84*
280.0	281.4	31.06	7.41	24.29	.98*
290.2	291.6	31.06	7.40	24.29	+
300.1	301.6	31.08	7.18	24.34	4.75*
310.3	311.8	31.07	7.40	24.30	+
320.2	321.7	31.07	7.40	24.31	1.49*
330.0	331.6	31.09	7.39	24.32	2.08*
340.1	341.8	31.11	7.36	24.34	+

MAX DEPTH 343.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 41.60  
 DATE 22/ 3/77  
 TIME (PST) 1557

TAPE CZ0/78/ 2- 29  
 LONG W125 47.20  
 PASS NO. 13  
 STN: 9 - KN5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.82	6.67	18.71	59.01
2.1	2.1	27.69	6.92	21.72	48.23
5.1	5.1	29.64	7.28	23.20	19.40
10.0	10.1	30.24	7.38	23.66	9.28
15.2	15.2	30.40	7.41	23.78	4.65
20.2	20.3	30.44	7.42	23.81	4.00*
25.1	25.2	30.46	7.42	23.82	3.74*
30.1	30.2	30.48	7.43	23.84	3.59*
35.1	35.2	30.51	7.43	23.86	4.73
40.2	40.3	30.56	7.44	23.90	4.62*
45.2	45.4	30.59	7.45	23.92	3.32*
50.3	50.5	30.61	7.46	23.93	2.20*
60.2	60.5	30.62	7.46	23.94	1.56*
70.2	70.5	30.64	7.47	23.96	4.40*
80.1	80.4	30.65	7.48	23.96	1.22*
90.1	90.5	30.66	7.48	23.97	1.24*
100.0	100.5	30.67	7.49	23.98	1.34*
110.0	110.5	30.68	7.50	23.98	1.73*
120.2	120.7	30.69	7.51	23.99	2.52*
130.2	130.7	30.73	7.52	24.02	2.81*
140.2	140.9	30.76	7.52	24.04	3.09*
150.0	150.7	30.82	7.51	24.09	4.33
160.1	160.8	30.84	7.50	24.11	1.84*
170.0	170.8	30.87	7.49	24.13	3.18*
180.1	181.0	30.91	7.47	24.17	3.11*
190.0	190.9	30.94	7.47	24.19	2.83*
200.1	201.1	30.97	7.46	24.21	2.31*
210.1	211.1	30.98	7.45	24.23	1.67*
220.1	221.1	30.99	7.44	24.24	1.71*
230.1	231.2	31.00	7.44	24.24	1.40*
240.2	241.4	31.01	7.43	24.25	1.75*
250.0	251.2	31.01	7.43	24.25	1.24*
260.2	261.4	31.02	7.43	24.26	1.48*
270.1	271.4	31.03	7.42	24.27	1.45*
280.2	281.5	31.03	7.42	24.27	2.06*
290.2	291.6	31.06	7.40	24.30	2.97*
300.1	301.6	31.07	7.39	24.31	1.86*
310.1	311.6	31.08	7.39	24.31	1.20*
320.1	321.6	31.09	7.38	24.32	3.10*
330.0	331.6	31.11	7.36	24.34	+

MAX DEPTH 330.9

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 2 KNIGHT INLET 1977

LAT N50 41.60

DATE 23/ 3/77

TIME (PST) 1042

TAPE CZ0/78/ 2- 88

LONG W125 49.30

PASS NO. 21

STN: 10 - TOM. ISL.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.70	6.82	20.17	+
5.7	5.7	29.91	7.30	23.40	2.20
6.7	6.7	29.91	7.34	23.40	6.85
10.1	10.1	30.19	7.38	23.62	11.95*
15.1	15.2	30.28	7.39	23.68	6.29
20.1	20.2	30.37	7.40	23.75	5.40*
25.1	25.2	30.41	7.41	23.78	4.65*
30.1	30.3	30.45	7.42	23.82	3.47*
35.2	35.3	30.47	7.43	23.83	2.28*
40.2	40.4	30.48	7.44	23.84	4.09
45.0	45.2	30.53	7.45	23.87	7.80
50.1	50.3	30.62	7.47	23.94	5.88*
60.0	60.3	30.64	7.48	23.96	2.10*
70.0	70.4	30.66	7.49	23.97	2.61*
80.1	80.5	30.70	7.53	24.00	2.09*
90.0	90.4	30.71	7.53	24.00	.92*
100.2	100.6	30.71	7.54	24.00	1.46*
110.1	110.6	30.73	7.54	24.02	1.91*
120.1	120.6	30.75	7.53	24.03	2.76*
130.2	130.8	30.80	7.52	24.07	2.77*
140.2	140.8	30.82	7.50	24.09	4.71
150.1	150.8	30.88	7.48	24.14	1.04*
160.2	160.9	30.87	7.49	24.13	2.24*
170.1	170.8	30.89	7.48	24.15	1.32*
180.1	180.9	30.91	7.48	24.16	2.50*
190.2	191.1	30.93	7.47	24.18	1.63*
200.1	201.0	30.93	7.47	24.18	1.50*
210.2	211.1	30.95	7.46	24.20	2.87*
220.1	221.1	30.98	7.45	24.22	1.54*
230.0	231.1	30.98	7.45	24.23	1.64*
240.2	241.3	31.01	7.43	24.25	3.43
250.1	251.3	31.04	7.41	24.28	2.57*
260.1	261.4	31.05	7.41	24.29	1.61*
270.1	271.4	31.07	7.40	24.30	1.08*
280.2	281.5	31.06	7.40	24.30	.83*
290.0	291.4	31.06	7.40	24.30	.31*
300.1	301.6	31.06	7.40	24.30	

MAX DEPTH 305.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 41.10  
 DATE 23/ 3/77  
 TIME (PST) 1107

TAPE CZ0/78/ 2- 31  
 LONG W125 51.90  
 PASS NO. 23  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.37	6.95	21.46	79.54
2.1	2.1	27.35	6.94	21.45	47.49
5.0	5.0	28.52	7.13	22.34	25.42
10.2	10.2	30.23	7.36	23.65	9.72
15.2	15.2	30.35	7.38	23.74	5.14
20.1	20.2	30.44	7.39	23.81	6.49*
25.1	25.2	30.47	7.41	23.83	3.91*
30.1	30.3	30.51	7.43	23.86	3.46*
35.3	35.4	30.53	7.44	23.87	3.07*
40.2	40.4	30.55	7.45	23.89	3.40*
45.3	45.5	30.57	7.45	23.91	3.76*
50.2	50.4	30.60	7.46	23.93	3.33*
60.3	60.6	30.63	7.47	23.95	2.53*
70.0	70.3	30.65	7.48	23.97	1.90*
80.0	80.4	30.67	7.48	23.98	3.69
90.1	90.5	30.69	7.49	23.99	1.44*
100.2	100.6	30.71	7.49	24.01	2.64*
110.0	110.5	30.76	7.54	24.04	3.41*
120.2	120.8	30.79	7.54	24.07	3.55
130.1	130.7	30.85	7.51	24.11	3.36*
140.0	140.7	30.87	7.50	24.13	1.77*
150.1	150.8	30.88	7.50	24.14	1.92*
160.1	160.9	30.90	7.48	24.16	3.99*
170.1	170.9	30.94	7.47	24.19	3.04*
180.3	181.1	30.98	7.45	24.22	2.38*
190.0	190.9	30.98	7.45	24.23	2.51*
200.1	201.0	31.01	7.44	24.25	1.99*
210.1	211.2	31.01	7.44	24.25	.88*
220.2	221.3	31.02	7.43	24.26	1.42*
230.2	231.3	31.03	7.43	24.26	1.75*
240.0	241.2	31.03	7.42	24.27	1.42*
250.2	251.4	31.04	7.42	24.27	.95*
260.0	261.3	31.04	7.42	24.28	1.00*
270.2	271.5	31.04	7.42	24.28	1.51*
280.0	281.4	31.05	7.41	24.29	1.67*
290.2	291.6	31.06	7.40	24.30	2.42*

MAX DEPTH 298.3



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 40.70  
 DATE 23/ 3/77  
 TIME (PST) 1131

TAPE CZ0/78/ 2- 89  
 LONG W125 54.40  
 PASS NO. 25  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	26.13	6.81	20.51	22.33
2.1	2.1	26.90	6.92	21.10	31.96
5.1	5.1	26.75	7.16	22.52	32.79
10.1	10.1	29.79	7.30	23.31	16.26*
15.2	15.2	30.08	7.37	23.53	10.17*
20.1	20.2	30.28	7.39	23.69	7.23*
25.1	25.2	30.38	7.41	23.76	5.19
30.1	30.2	30.42	7.42	23.79	4.75*
35.2	35.4	30.45	7.43	23.81	4.43*
40.0	40.2	30.51	7.44	23.86	4.01*
45.0	45.2	30.53	7.44	23.88	3.58*
50.0	50.2	30.56	7.45	23.89	3.97
60.1	60.4	30.58	7.46	23.91	1.96*
70.2	70.5	30.62	7.47	23.94	1.78*
80.1	80.5	30.63	7.47	23.95	1.91*
90.0	90.5	30.65	7.47	23.96	1.81*
100.1	100.6	30.67	7.49	23.97	3.05
110.2	110.7	30.71	7.52	24.00	2.84*
120.3	120.8	30.72	7.52	24.01	1.96*
130.3	130.9	30.73	7.53	24.02	1.80*
140.0	140.7	30.77	7.56	24.05	3.06
150.1	150.8	30.82	7.53	24.09	4.08*
160.2	160.9	30.88	7.49	24.14	3.43*
170.0	170.8	30.91	7.49	24.16	3.14*
180.2	181.0	30.95	7.47	24.20	2.85*
190.1	191.0	30.97	7.46	24.21	1.81*
200.2	201.1	30.97	7.45	24.22	1.84*
210.2	211.2	30.99	7.45	24.23	2.32*
220.2	221.2	31.01	7.44	24.25	2.59*
230.3	231.4	31.03	7.43	24.27	1.59*
240.1	241.2	31.03	7.42	24.27	1.99*
250.1	251.3	31.05	7.42	24.28	1.30*
260.0	261.3	31.05	7.42	24.28	.65*
270.2	271.5	31.05	7.42	24.29	.69*
280.2	281.5	31.05	7.42	24.29	1.05*
290.1	291.5	31.06	7.41	24.29	1.42*
300.0	301.5	31.07	7.41	24.30	.96*
310.2	311.7	31.07	7.41	24.30	.71*
320.1	321.7	31.07	7.41	24.30	.64*
330.0	331.6	31.07	7.41	24.30	.70*
340.1	341.7	31.07	7.41	24.30	

MAX DEPTH 347.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 40.80  
 DATE 22/ 3/77  
 TIME (PST) 1648

TAPE CZ0/78/ 2- 33  
 LONG W125 56.30  
 PASS NO. 15  
 STN: 13 - KN4

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.42	7.03	21.50	10.49
2.1	2.1	27.53	7.03	21.58	12.09
5.1	5.1	27.86	7.06	21.83	14.90
10.0	10.0	29.20	7.24	22.86	24.57
15.0	15.1	29.69	7.29	23.24	18.38
20.2	20.2	29.76	7.31	23.29	7.84*
25.1	25.2	29.91	7.33	23.41	8.84
30.0	30.2	30.10	7.36	23.55	8.85
35.0	35.2	30.36	7.39	23.75	9.97
40.2	40.4	30.47	7.42	23.83	4.84*
45.1	45.3	30.49	7.42	23.85	4.11*
50.2	50.4	30.53	7.44	23.88	4.56*
60.1	60.4	30.63	7.46	23.95	4.62*
70.1	70.4	30.68	7.47	23.99	2.38*
80.3	80.6	30.69	7.48	24.00	2.75*
90.2	90.6	30.71	7.48	24.01	2.60*
100.0	100.5	30.74	7.48	24.03	2.28*
110.3	110.8	30.76	7.48	24.05	2.50*
120.1	120.6	30.78	7.48	24.07	2.14*
130.3	130.9	30.80	7.49	24.08	1.84*
140.3	140.9	30.84	7.49	24.11	3.46*
150.0	150.7	30.89	7.49	24.15	4.18*
160.1	160.9	30.91	7.47	24.17	2.45*
170.1	170.9	30.93	7.47	24.18	2.68*
180.1	181.0	30.97	7.45	24.22	1.85*
190.3	191.2	30.98	7.45	24.22	2.02*
200.1	201.0	31.00	7.44	24.24	1.66*
210.0	211.0	31.00	7.44	24.24	.88*
220.1	221.2	31.00	7.44	24.24	1.55*
230.0	231.1	31.02	7.43	24.26	1.33*
240.3	241.4	31.03	7.43	24.27	1.16*
250.3	251.5	31.04	7.43	24.27	1.76*
260.3	261.5	31.06	7.42	24.29	4.17*
270.1	271.4	31.06	7.41	24.30	.88*
280.0	281.4	31.06	7.41	24.30	.64*
290.1	291.5	31.06	7.41	24.30	.67*
300.0	301.5	31.07	7.41	24.30	1.05*
310.1	311.6	31.07	7.42	24.30	1.06*
320.1	321.6	31.08	7.42	24.31	.86*
330.3	331.9	31.08	7.42	24.30	.64*
340.2	341.9	31.07	7.42	24.30	.73*
360.2	362.0	31.08	7.42	24.31	2.15*

MAX DEPTH 363.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 23/ 3/77  
 TIME (PST) 1205

TAPE CZ0/78/ 2- 34  
 LONG W125 57.20  
 PASS NO. 27  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	26.95	6.93	21.14	16.04
2.2	2.2	26.91	6.92	21.10	8.62*
5.1	5.1	28.07	7.04	22.00	22.14
10.2	10.2	28.70	7.10	22.49	28.24
15.1	15.1	29.77	7.31	23.30	19.61
20.0	20.1	29.88	7.33	23.38	8.05
25.1	25.2	30.09	7.37	23.54	7.45
30.2	30.3	30.14	7.38	23.58	6.13*
35.1	35.2	30.20	7.39	23.62	6.14
40.1	40.2	30.28	7.41	23.68	5.85
45.1	45.3	30.33	7.42	23.72	6.64
50.2	50.4	30.46	7.44	23.82	6.24
60.1	60.4	30.56	7.46	23.90	4.05*
70.1	70.4	30.59	7.46	23.92	1.89*
80.0	80.4	30.60	7.47	23.93	1.75*
90.2	90.6	30.62	7.47	23.94	2.18*
100.1	100.6	30.64	7.48	23.96	1.36*
110.2	110.7	30.67	7.48	23.97	2.38*
120.2	120.7	30.67	7.48	23.98	1.18*
130.0	130.6	30.69	7.49	23.99	3.27
140.2	140.9	30.74	7.49	24.03	3.25*
150.1	150.8	30.75	7.49	24.04	2.64*
160.2	160.9	30.78	7.48	24.07	2.59*
170.0	170.8	30.82	7.49	24.09	2.15*
180.1	181.0	30.84	7.49	24.11	2.17*
190.3	191.2	30.85	7.49	24.12	2.33*
200.0	201.0	30.86	7.49	24.13	1.57*
210.0	211.0	30.87	7.48	24.13	2.03
220.2	221.2	30.91	7.48	24.17	2.63*
230.0	231.1	30.94	7.48	24.19	2.32*
240.0	241.2	30.94	7.48	24.19	1.73*
250.1	251.3	30.97	7.46	24.21	2.82*
260.0	261.3	31.02	7.43	24.26	4.64*
270.1	271.4	31.03	7.43	24.27	1.92*
280.2	281.6	31.05	7.42	24.28	1.66*
290.1	291.5	31.06	7.42	24.29	1.10*
300.1	301.5	31.06	7.42	24.29	.86*
310.2	311.7	31.06	7.42	24.29	.83*

MAX DEPTH 318.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 23/ 3/77  
 TIME (PST) 1229

TAPE CZ0/78/ 2- 35  
 LONG W125 59.50  
 PASS NO. 29  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.21	6.94	21.34	8.33
2.0	2.0	27.40	6.95	21.49	18.60
5.1	5.1	28.66	7.07	22.46	31.82
10.2	10.2	28.94	7.16	22.66	9.63
15.2	15.2	28.92	7.16	22.65	+
20.0	20.1	29.05	7.18	22.75	9.77
25.2	25.3	29.74	7.26	23.28	28.57
30.1	30.3	30.61	7.46	23.93	9.24*
35.0	35.2	30.61	7.47	23.94	2.22*
40.1	40.2	30.61	7.47	23.93	5.98
45.0	45.2	30.64	7.48	23.95	3.83*
50.1	50.3	30.66	7.48	23.97	2.37*
60.1	60.4	30.70	7.49	24.00	4.05*
70.0	70.4	30.69	7.49	24.00	+

MAX DEPTH 74.6

CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 39.90  
 DATE 23/ 3/77  
 TIME (PST) 1259

TAPE CZ0/78/ 2- 36  
 LONG W126 4.20  
 PASS NO. 31  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.63	7.16	22.42	34.24
2.0	2.0	28.60	7.16	22.40	8.83*
5.2	5.2	29.68	7.30	23.22	22.28
10.0	10.1	30.32	7.41	23.72	10.32
15.1	15.1	30.45	7.43	23.81	10.43
20.2	20.3	30.50	7.44	23.85	3.71*
25.0	25.2	30.53	7.44	23.88	3.14*
30.2	30.3	30.55	7.45	23.89	2.62*
35.1	35.3	30.56	7.45	23.89	2.11*
40.3	40.4	30.55	7.45	23.89	1.62*
45.0	45.2	30.56	7.45	23.90	1.78*
50.1	50.3	30.57	7.46	23.90	2.99*
60.1	60.4	30.62	7.48	23.94	2.73*
70.2	70.5	30.65	7.49	23.96	2.73*
80.2	80.6	30.67	7.50	23.98	2.21*
90.0	90.4	30.69	7.52	23.99	1.16*
100.1	100.6	30.69	7.51	23.99	.74*
110.2	110.7	30.69	7.52	23.99	1.03*
120.2	120.8	30.70	7.52	23.99	1.27*
130.1	130.7	30.70	7.52	24.00	1.71*
140.2	140.9	30.72	7.53	24.01	1.42*
150.2	150.8	30.73	7.53	24.02	.83*
160.2	160.9	30.73	7.53	24.02	.96*
170.1	170.9	30.73	7.52	24.02	.49*
180.1	181.0	30.73	7.52	24.02	+

MAX DEPTH 183.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 39.20  
 DATE 23/ 3/77  
 TIME (PST) 1344

TAPE CZO/78/ 2- 37  
 LONG W126 12.50  
 PASS NO. 33  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.05	7.27	22.74	9.31
2.1	2.1	29.05	7.27	22.74	4.68*
5.2	5.3	29.40	7.28	23.01	11.77
10.0	10.1	29.59	7.28	23.16	14.23
15.2	15.2	29.95	7.32	23.44	8.44
20.0	20.1	30.09	7.36	23.54	10.02
25.1	25.2	30.31	7.41	23.70	7.71
30.2	30.3	30.38	7.43	23.76	8.71*
35.0	35.2	30.58	7.49	23.91	5.93*
40.0	40.2	30.58	7.49	23.91	2.14*
45.0	45.2	30.59	7.49	23.92	2.03*
50.1	50.3	30.60	7.49	23.92	2.87*
60.0	60.3	30.65	7.51	23.96	1.60*
70.0	70.3	30.67	7.52	23.97	3.16*
80.1	80.5	30.68	7.52	23.98	1.43*
90.3	90.7	30.68	7.51	23.98	.74*
100.2	100.6	30.68	7.51	23.98	1.21*
110.1	110.6	30.70	7.52	24.00	1.70*
120.0	120.6	30.70	7.53	24.00	1.89*
130.2	130.8	30.72	7.53	24.01	1.30*
140.1	140.7	30.72	7.54	24.01	.97*
150.0	150.7	30.72	7.54	24.01	.84*
160.0	160.8	30.72	7.54	24.01	1.41*
170.1	170.9	30.73	7.55	24.02	1.28*
180.1	181.0	30.74	7.55	24.02	+

MAX DEPTH 187.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 38.50  
 DATE 23/ 3/77  
 TIME (PST) 1414

TAPE CZ0/78/ 2- 38  
 LONG W126 17.30  
 PASS NO. 35  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.50	7.32	23.08	7.42
2.0	2.1	29.54	7.31	23.12	5.91
5.1	5.1	29.64	7.31	23.20	7.23*
10.0	10.1	30.03	7.33	23.50	11.75*
15.1	15.1	30.14	7.35	23.58	9.31*
20.1	20.2	30.24	7.36	23.66	7.55
25.1	25.2	30.34	7.38	23.73	8.94
30.1	30.2	30.43	7.43	23.80	6.10*
35.2	35.3	30.47	7.43	23.83	5.72
40.1	40.3	30.51	7.43	23.86	4.24*
45.1	45.3	30.52	7.43	23.87	4.24*
50.3	50.5	30.58	7.45	23.91	3.47*
60.3	60.6	30.61	7.46	23.93	2.11*
70.2	70.5	30.62	7.47	23.94	2.33*
80.1	80.5	30.65	7.49	23.97	2.70*
90.0	90.5	30.67	7.51	23.98	2.01*
100.0	100.5	30.68	7.51	23.98	1.41*
110.0	110.5	30.69	7.52	23.99	1.14*
120.0	120.6	30.70	7.52	23.99	1.69*
130.2	130.8	30.71	7.53	24.01	1.95*
140.1	140.7	30.73	7.54	24.01	1.18*
150.2	150.9	30.73	7.54	24.02	.58*
160.1	160.8	30.73	7.54	24.02	1.23*
170.3	171.0	30.74	7.55	24.02	1.56*
180.1	180.9	30.74	7.55	24.02	1.31*
190.1	191.0	30.75	7.56	24.03	1.04*
200.1	201.0	30.75	7.56	24.03	.78*
210.2	211.1	30.75	7.56	24.03	.89*
220.0	221.0	30.76	7.56	24.03	2.63*

MAX DEPTH 224.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 2 KNIGHT INLET 1977  
 LAT N50 38.10  
 DATE 23/ 3/77  
 TIME (PST) 1548

TAPE CZ0/78/ 2- 90  
 LONG W126 25.20  
 PASS NO. 37  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.24	7.39	23.65	4.21*
2.1	2.1	30.26	7.39	23.67	4.39*
5.1	5.1	30.27	7.39	23.68	4.66*
10.0	10.0	30.33	7.39	23.73	4.49*
15.2	15.3	30.37	7.39	23.75	3.88*
20.0	20.1	30.39	7.40	23.77	3.39*
25.1	25.2	30.41	7.40	23.78	3.00*
30.0	30.2	30.42	7.41	23.79	3.65
35.1	35.3	30.47	7.42	23.83	4.31
40.3	40.5	30.50	7.43	23.85	+
45.3	45.5	30.50	7.43	23.85	2.73*
50.3	50.5	30.52	7.44	23.87	2.03*
60.0	60.3	30.55	7.45	23.89	2.52*
70.1	70.4	30.57	7.46	23.91	3.19*
80.2	80.5	30.60	7.47	23.93	1.91*
90.1	90.5	30.61	7.48	23.93	1.04*
100.1	100.6	30.63	7.48	23.95	2.48*
110.3	110.8	30.65	7.49	23.96	1.53*
120.1	120.6	30.69	7.51	23.99	3.04*
130.0	130.6	30.69	7.51	23.99	1.30*
140.3	140.9	30.69	7.52	23.99	.79*
150.1	150.8	30.70	7.52	24.00	.96*
160.2	160.9	30.70	7.52	24.00	+
172.4	173.2	30.70	7.52	24.00	+
180.3	181.1	30.70	7.53	24.00	+
190.1	191.0	30.70	7.53	24.00	+
200.2	201.1	30.71	7.53	24.00	1.03*
210.2	211.2	30.71	7.53	24.00	.98*
220.2	221.2	30.74	7.32	24.05	3.23*
230.1	231.1	30.72	7.54	24.01	1.02*

MAX DEPTH 239.5

CRUISE NO. 3





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N51 2.30  
 DATE 30/ 4/77  
 TIME (PST) 0551

TAPE CZ0/78/ 2- 40  
 LONG W125 33.80  
 PASS NO. 1  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	5.10	11.02	3.66	114.78
2.1	2.1	16.73	10.63	12.72	94.65
5.0	5.0	23.75	9.55	18.30	56.63
10.1	10.1	29.71	7.55	23.22	21.42
15.3	15.4	30.07	7.47	23.51	8.68
20.2	20.2	30.27	7.41	23.67	7.71
25.3	25.4	30.36	7.40	23.75	5.47
30.2	30.4	30.42	7.41	23.79	5.57
35.1	35.2	30.47	7.41	23.83	5.92
40.1	40.2	30.51	7.45	23.86	4.85*
45.1	45.3	30.52	7.45	23.87	2.93*
50.2	50.4	30.55	7.46	23.89	2.98*
60.3	60.6	30.59	7.47	23.92	2.72*
70.1	70.4	30.61	7.46	23.94	2.50*
80.1	80.5	30.63	7.44	23.96	2.52*
90.0	90.4	30.65	7.42	23.97	2.45*
100.1	100.6	30.68	7.45	23.99	2.35*
110.0	110.5	30.70	7.43	24.01	2.38*
120.3	120.8	30.72	7.41	24.03	2.32*
130.1	130.7	30.73	7.37	24.04	2.43*
140.0	140.7	30.76	7.40	24.06	1.96*
150.2	150.9	30.77	7.38	24.07	1.69*
160.1	160.9	30.78	7.35	24.08	2.19*
170.2	171.0	30.80	7.30	24.10	2.44*
180.1	181.0	30.81	7.25	24.12	2.10*
190.1	191.0	30.83	7.24	24.14	1.74*
200.0	201.0	30.84	7.23	24.14	1.51*
210.2	211.2	30.86	7.22	24.16	

MAX DEPTH 219.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 58.90  
 DATE 30/ 4/77  
 TIME (PST) 0623

TAPE CZ0/78/ 2- 41  
 LONG W125 33.20  
 PASS NO. 3  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	7.85	11.35	5.76	103.05
2.0	2.0	15.61	11.82	11.68	97.56
5.1	5.1	26.93	8.77	20.89	62.78
10.1	10.1	29.69	7.57	23.20	20.75
15.3	15.3	30.07	7.49	23.51	9.96
20.0	20.1	30.21	7.46	23.62	7.73
25.1	25.2	30.32	7.42	23.71	6.66
30.2	30.3	30.40	7.40	23.78	5.50
35.2	35.4	30.44	7.40	23.81	4.17*
40.3	40.5	30.48	7.42	23.84	3.82
45.3	45.5	30.51	7.44	23.86	4.21
50.1	50.4	30.54	7.45	23.88	4.15*
60.2	60.5	30.58	7.47	23.91	4.47
70.1	70.4	30.61	7.48	23.93	2.66*
80.2	80.6	30.63	7.49	23.95	2.34*
90.3	90.7	30.66	7.47	23.97	2.45*
100.2	100.6	30.68	7.50	23.98	3.30
110.2	110.7	30.70	7.51	24.00	2.42*
120.3	120.9	30.72	7.49	24.02	1.91*
130.1	130.6	30.73	7.48	24.03	2.00*
140.1	140.8	30.74	7.47	24.04	2.43*
150.2	150.9	30.77	7.42	24.07	2.13*
160.1	160.8	30.79	7.39	24.08	2.20*
170.2	171.0	30.79	7.35	24.09	2.59*
180.2	181.1	30.81	7.27	24.11	2.44*
190.1	191.0	30.83	7.29	24.13	2.31*
200.2	201.2	30.85	7.26	24.15	2.87*
210.2	211.2	30.87	7.23	24.17	3.60*
220.0	221.1	30.90	7.23	24.19	2.21*
230.0	231.1	30.91	7.22	24.20	2.09*
240.1	241.2	30.94	7.22	24.22	2.05*
250.2	251.4	30.95	7.22	24.24	2.09*
260.3	261.5	30.97	7.22	24.25	1.99*
270.3	271.6	30.98	7.22	24.26	1.91*
280.1	281.4	30.99	7.22	24.27	3.46*
290.0	291.4	31.00	7.22	24.28	2.60*
300.3	301.7	31.02	7.22	24.28	.84*
310.0	311.5	31.03	7.23	24.30	1.69*
320.1	321.6	31.06	7.23	24.31	

MAX DEPTH 323.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 54.30  
 DATE 30/ 4/77  
 TIME (PST) 0709

TAPE CZ0/78/ 2- 42  
 LONG W125 32.80  
 PASS NO. 5  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	10.97	11.82	8.10	14.46
2.0	2.0	13.55	11.94	10.08	76.09
5.1	5.0	22.84	10.40	17.48	75.42
10.3	10.3	29.47	7.73	23.01	28.38
15.1	15.1	30.05	7.51	23.49	9.95
20.1	20.2	30.23	7.51	23.63	8.79
25.1	25.2	30.36	7.48	23.73	8.55
30.1	30.3	30.43	7.50	23.79	5.45*
35.2	35.4	30.47	7.46	23.83	4.19*
40.0	40.2	30.51	7.47	23.85	3.40*
45.2	45.4	30.52	7.48	23.86	3.33*
50.4	50.6	30.55	7.49	23.88	3.44*
60.2	60.4	30.60	7.51	23.92	2.80*
70.2	70.6	30.64	7.56	23.95	2.99*
80.1	80.5	30.65	7.58	23.95	1.99*
90.0	90.5	30.67	7.59	23.97	1.88*
100.1	100.5	30.69	7.58	23.98	2.07*
110.3	110.8	30.71	7.56	24.00	2.39*
120.3	120.9	30.73	7.53	24.02	2.30*
130.1	130.7	30.73	7.49	24.03	2.23*
140.1	140.7	30.74	7.39	24.05	2.21*
150.3	151.0	30.76	7.42	24.06	2.11*
160.2	160.9	30.78	7.36	24.08	2.75*
170.2	171.0	30.80	7.32	24.10	2.81*
180.0	180.9	30.82	7.29	24.12	2.44*

MAX DEPTH 185.7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 52.40  
 DATE 30/ 4/77  
 TIME (PST) 0747

TAPE CZ0/78/ 2- 43  
 LONG W125 38.50  
 PASS NO. 7  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	15.07	10.98	11.38	76.03
2.1	2.1	21.15	11.04	16.07	82.32
5.4	5.4	27.09	8.87	20.99	52.47
10.2	10.3	29.61	7.68	23.12	21.76
15.1	15.2	29.99	7.5.	23.44	10.99
20.1	20.2	30.19	7.49	23.60	9.56
25.1	25.2	30.34	7.50	23.72	6.12
30.3	30.4	30.41	7.50	23.77	5.48*
35.1	35.3	30.44	7.52	23.80	4.80*
40.3	40.4	30.50	7.53	23.84	4.05*
45.1	45.3	30.53	7.54	23.86	3.30*
50.2	50.5	30.55	7.54	23.87	2.93*
60.2	60.5	30.58	7.55	23.90	4.15
70.1	70.4	30.62	7.57	23.93	2.78*
80.1	80.4	30.65	7.56	23.95	2.53*
90.0	90.4	30.66	7.58	23.96	2.32*
100.3	100.7	30.69	7.58	23.98	2.45*
110.3	110.8	30.71	7.59	23.99	2.30*
120.1	120.7	30.72	7.58	24.01	2.89
130.3	130.9	30.74	7.57	24.02	2.67*
140.2	140.8	30.76	7.54	24.04	2.11*
150.2	150.9	30.77	7.48	24.06	2.32*
160.2	160.9	30.78	7.47	24.06	2.54*
170.2	170.9	30.81	7.49	24.09	2.86*
180.1	180.9	30.84	7.47	24.11	2.45*
190.1	191.0	30.86	7.45	24.13	2.12*
200.2	201.2	30.87	7.33	24.16	3.32*
210.2	211.2	30.88	7.31	24.16	2.28*
220.1	221.1	30.92	7.36	24.19	5.34*
230.2	231.3	30.92	7.37	24.19	2.12*
240.1	241.2	30.93	7.27	24.21	2.20*
250.1	251.3	30.95	7.25	24.23	1.79*
260.1	261.4	30.95	7.24	24.23	1.97*
270.2	271.5	30.97	7.24	24.25	1.86*
280.2	281.5	30.99	7.24	24.26	1.67*
290.1	291.5	30.99	7.24	24.27	1.77*
300.1	301.6	31.01	7.24	24.28	2.06*
310.0	311.5	31.02	7.23	24.29	2.17*
320.3	321.8	31.04	7.23	24.30	2.15*
330.0	331.6	31.06	7.24	24.32	1.82*
340.2	341.8	31.07	7.24	24.33	

MAX DEPTH 346.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 47.90  
 DATE 30/ 4/77  
 TIME (PST) 0839

TAPE CZ0/78/ 2- 44  
 LONG W125 37.00  
 PASS NO. 9  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	19.55	11.35	14.79	51.74
2.1	2.1	22.94	10.77	17.49	54.11
5.3	5.3	26.50	9.21	20.48	45.57
10.3	10.3	29.56	7.73	23.07	16.56
15.1	15.2	30.01	7.50	23.46	14.39
20.2	20.3	30.24	7.48	23.64	9.63
25.3	25.4	30.39	7.50	23.76	8.06
30.2	30.3	30.43	7.49	23.79	5.95*
35.0	35.2	30.51	7.52	23.84	4.70*
40.1	40.2	30.54	7.54	23.87	3.80*
45.1	45.3	30.56	7.54	23.88	3.32*
50.4	50.6	30.58	7.55	23.90	3.00*
60.1	60.3	30.61	7.55	23.92	2.74*
70.1	70.4	30.64	7.54	23.95	2.49*
80.4	80.7	30.66	7.56	23.96	2.31*
90.1	90.5	30.68	7.53	23.98	2.20*
100.1	100.6	30.69	7.53	23.99	2.00*
110.3	110.8	30.70	7.53	24.00	2.86*
120.0	120.6	30.74	7.5	24.03	2.46*
130.0	130.6	30.75	7.53	24.04	2.21*
140.2	140.8	30.78	7.52	24.06	2.28*
150.2	150.9	30.80	7.52	24.08	2.62*
160.1	160.8	30.83	7.50	24.10	3.14*
170.1	170.9	30.86	7.48	24.13	2.20*
180.2	181.1	30.86	7.48	24.13	1.71*
190.0	190.9	30.88	7.47	24.14	1.79*
200.2	201.1	30.89	7.46	24.15	1.74*
210.2	211.2	30.90	7.45	24.16	2.20*
220.1	221.2	30.93	7.44	24.19	2.54*
230.2	231.3	30.95	7.43	24.20	2.34*
240.1	241.2	30.96	7.40	24.22	1.67*
250.0	251.2	30.97	7.37	24.23	1.75*
260.2	261.4	30.98	7.38	24.24	1.92*
270.3	271.6	30.99	7.37	24.24	1.73*
280.2	281.5	31.00	7.37	24.25	1.79*
290.2	291.6	31.00	7.32	24.26	2.29*
300.1	301.5	31.02	7.28	24.28	1.24*
310.3	311.8	31.03	7.28	24.28	1.67*
320.3	321.8	31.03	7.27	24.29	1.63*
330.2	331.8	31.05	7.27	24.30	2.13*
340.2	341.9	31.07	7.26	24.32	2.96*
360.1	361.9	31.12	7.28	24.36	1.88*
380.1	381.9	31.15	7.29	24.38	1.48*
400.3	402.2	31.17	7.30	24.40	1.47*

MAX DEPTH 413.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 45.10  
 DATE 30/ 4/77  
 TIME (PST) 0916

TAPE CZ0/78/ 2- 45  
 LONG W125 41.00  
 PASS NO. 11  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	21.70	10.88	16.52	7.89
2.1	2.1	21.96	10.82	16.73	22.40
5.2	5.2	24.05	10.46	18.40	51.52
10.1	10.1	28.71	8.31	22.33	32.25
15.1	15.1	29.84	7.63	23.31	12.11
20.2	20.3	30.21	7.49	23.62	5.55
25.1	25.2	30.31	7.48	23.70	4.86
30.3	30.4	30.39	7.48	23.76	5.80*
35.1	35.2	30.45	7.49	23.80	5.46*
40.0	40.2	30.50	7.49	23.84	4.58*
45.1	45.2	30.52	7.52	23.86	3.70*
50.1	50.3	30.56	7.53	23.88	4.04
60.1	60.4	30.60	7.52	23.92	3.02*
70.1	70.4	30.63	7.53	23.94	2.55*
80.2	80.6	30.64	7.52	23.95	3.64
90.1	90.5	30.67	7.53	23.97	2.50*
100.2	100.7	30.69	7.53	23.99	2.21*
110.1	110.6	30.72	7.55	24.01	2.58*
120.2	120.7	30.74	7.55	24.02	2.11*
130.3	130.9	30.76	7.56	24.04	2.52*
140.2	140.9	30.78	7.55	24.06	2.22*
150.1	150.8	30.81	7.54	24.08	2.38*
160.1	160.8	30.82	7.53	24.09	1.84*
170.3	171.1	30.83	7.50	24.10	2.13*
180.3	181.2	30.85	7.50	24.12	2.30*
190.2	191.1	30.87	7.49	24.13	2.67*
200.0	201.0	30.89	7.48	24.15	2.36*
210.1	211.1	30.91	7.46	24.17	2.46*
220.1	221.1	30.94	7.45	24.19	2.19*
230.0	231.1	30.95	7.43	24.21	2.15*
240.2	241.3	30.97	7.42	24.22	1.81*
250.1	251.2	30.98	7.41	24.23	1.72*
260.3	261.5	30.99	7.40	24.24	2.03*
270.1	271.4	30.99	7.38	24.24	2.01*
280.2	281.6	31.01	7.39	24.25	1.69*
290.1	291.5	31.02	7.38	24.27	1.56*
300.0	301.5	31.02	7.38	24.27	1.88
310.1	311.6	31.04	7.35	24.28	1.84*
320.0	321.6	31.05	7.34	24.29	2.39*

MAX DEPTH 328.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 41.90  
 DATE 30/ 4/77  
 TIME (PST) 0957

TAPE CZ0/78/ 2- 46  
 LONG W125 43.50  
 PASS NO. 13  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	18.63	10.61	14.19	143.94
2.1	2.1	26.10	9.79	20.09	87.41
5.2	5.2	28.10	8.82	21.78	28.20
10.3	10.3	29.77	7.79	23.23	16.67
15.1	15.1	30.17	7.53	23.58	10.85
20.1	20.2	30.34	7.48	23.72	10.83
25.2	25.3	30.40	7.48	23.77	4.56*
30.3	30.4	30.43	7.48	23.79	3.85*
35.4	35.6	30.45	7.48	23.81	4.85*
40.2	40.4	30.51	7.50	23.85	4.37*
45.0	45.2	30.53	7.50	23.87	2.87*
50.1	50.3	30.54	7.50	23.88	3.20
60.3	60.6	30.59	7.51	23.91	2.78*
70.1	70.5	30.60	7.51	23.92	2.70*
80.1	80.5	30.65	7.52	23.96	2.76*
90.3	90.8	30.66	7.52	23.97	.93*
100.0	100.5	30.68	7.54	23.98	2.48*
110.2	110.7	30.70	7.56	23.99	2.06*
120.3	120.9	30.73	7.57	24.02	3.28
130.1	130.7	30.76	7.58	24.04	2.20*
140.1	140.7	30.78	7.58	24.05	2.45*
150.0	150.7	30.80	7.57	24.07	1.75*
160.0	160.8	30.81	7.56	24.08	1.82*
170.0	170.8	30.83	7.54	24.09	2.61*
180.2	181.1	30.85	7.53	24.11	2.66*
190.1	191.0	30.86	7.52	24.12	+
200.0	201.0	30.88	7.51	24.14	3.00*
210.4	211.4	30.91	7.48	24.16	2.12*
220.2	221.3	30.94	7.46	24.19	2.12*
230.2	231.3	30.94	7.46	24.19	1.57*
240.1	241.2	30.95	7.46	24.20	2.39*
250.2	251.4	30.98	7.43	24.23	1.92*
260.2	261.5	30.98	7.43	24.23	1.69*
270.1	271.4	30.99	7.43	24.24	1.63*
280.2	281.6	31.00	7.42	24.24	2.15*
290.0	291.4	31.01	7.41	24.25	1.51*
300.1	301.5	31.01	7.41	24.26	1.50*
310.3	311.8	31.03	7.40	24.27	1.07*
320.1	321.7	31.03	7.39	24.27	2.30*
330.0	331.6	31.07	7.35	24.31	2.94*
340.2	341.8	31.08	7.34	24.32	1.20*
360.1	361.8	31.10	7.33	24.33	2.25*
380.0	381.9	31.15	7.32	24.37	3.53*
400.3	402.3	31.17	7.31	24.40	+

MAX DEPTH 405.5



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 41.70  
 DATE 30/ 4/77  
 TIME (PST) 1022

TAPE CZ0/78/ 2- 47  
 LONG W125 46.60  
 PASS NO. 15  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	25.11	10.76	19.17	50.18
2.2	2.2	25.39	10.68	19.41	12.95*
5.3	5.3	26.78	9.95	20.59	34.45
10.2	10.3	29.73	7.90	23.19	18.73
15.1	15.1	30.17	7.58	23.58	9.78
20.2	20.2	30.30	7.55	23.68	6.02
25.2	25.3	30.38	7.54	23.74	8.08
30.2	30.3	30.52	7.52	23.86	5.10*
35.4	35.6	30.56	7.51	23.89	4.68*
40.2	40.4	30.60	7.52	23.92	3.55*
45.0	45.2	30.61	7.53	23.92	2.38*
50.3	50.5	30.63	7.53	23.94	4.37
60.2	60.5	30.68	7.55	23.97	2.58*
70.0	70.3	30.70	7.58	23.99	2.44*
80.1	80.5	30.72	7.59	24.00	3.68
90.1	90.5	30.75	7.58	24.03	2.55*
100.1	100.6	30.78	7.59	24.05	2.18*
110.1	110.6	30.79	7.59	24.06	1.09*
120.4	121.0	30.80	7.59	24.06	1.93*
130.1	130.7	30.82	7.58	24.08	2.38*
140.3	140.9	30.83	7.58	24.09	2.04*
150.3	151.0	30.85	7.57	24.11	1.93*
160.2	160.9	30.86	7.57	24.11	2.07*
170.1	170.9	30.88	7.53	24.14	2.08*
180.1	181.0	30.89	7.52	24.15	1.85*
190.1	191.0	30.90	7.51	24.16	2.29*
200.1	201.1	30.92	7.49	24.18	2.11*
210.1	211.1	30.94	7.46	24.20	2.75*
220.1	221.2	30.96	7.45	24.21	1.99*
230.3	231.4	30.98	7.44	24.22	2.24*
240.2	241.3	30.99	7.43	24.24	1.73*
250.0	251.2	31.00	7.42	24.25	2.03*
260.1	261.4	31.01	7.41	24.26	1.34*
270.1	271.4	31.02	7.41	24.26	1.47*
280.2	281.6	31.02	7.40	24.26	.87*
290.2	291.6	31.03	7.40	24.27	1.19*
300.2	301.7	31.03	7.39	24.27	1.30*
310.2	311.7	31.04	7.39	24.28	1.65*
320.3	321.8	31.06	7.38	24.29	1.86*
330.4	332.0	31.07	7.37	24.30	2.29*
340.1	341.8	31.08	7.36	24.31	1.21*
360.0	361.8	31.08	7.37	24.31	+

MAX DEPTH 371.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 41.60  
 DATE 30/ 4/77  
 TIME (PST) 1048

TAPE CZ0/78/ 2- 48  
 LONG W125 49.30  
 PASS NO. 17

STN: 10 -TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.90	11.35	18.15	30.66
2.2	2.2	25.83	10.34	19.80	38.37
5.2	5.2	27.13	9.81	20.89	21.96
10.2	10.2	28.83	8.51	22.40	33.98
15.1	15.1	29.52	8.03	23.00	11.09
20.3	20.4	30.00	7.68	23.42	12.47
25.2	25.3	30.24	7.60	23.62	12.48
30.2	30.3	30.34	7.50	23.72	5.38
35.0	35.2	30.38	7.51	23.74	6.13*
40.3	40.5	30.49	7.51	23.84	6.39
45.2	45.4	30.53	7.51	23.87	5.16
50.2	50.5	30.57	7.51	23.89	3.77*
60.3	60.6	30.58	7.51	23.91	2.08*
70.2	70.5	30.61	7.51	23.93	3.03*
80.3	80.6	30.65	7.54	23.96	2.79*
90.1	90.5	30.67	7.56	23.97	1.82*
100.3	100.7	30.69	7.58	23.98	2.07*
110.3	110.8	30.71	7.59	23.99	1.40*
120.1	120.6	30.71	7.59	24.00	2.07*
130.3	130.9	30.75	7.59	24.02	2.84*
140.1	140.7	30.79	7.60	24.05	2.58*
150.1	150.8	30.81	7.60	24.07	4.17*
160.3	161.0	30.83	7.60	24.09	3.70
170.1	170.9	30.87	7.59	24.12	3.40*
180.2	181.0	30.89	7.56	24.14	1.45*
190.2	191.1	30.91	7.52	24.16	2.15*
200.2	201.1	30.92	7.52	24.17	1.17*
210.2	211.2	30.93	7.51	24.17	1.62*
220.2	221.2	30.94	7.49	24.19	3.01*
230.1	231.2	30.98	7.44	24.23	3.09*
240.0	241.2	30.99	7.43	24.24	1.35*
250.2	251.4	31.00	7.43	24.24	.81*
260.2	261.5	31.00	7.43	24.24	1.48*
270.2	271.5	31.01	7.42	24.25	1.38*
280.2	281.5	31.01	7.42	24.25	.82*
290.1	291.5	31.01	7.41	24.26	1.31*
300.3	301.7	31.01	7.41	24.26	1.16*
310.0	311.5	31.02	7.41	24.26	1.50*
320.3	321.8	31.03	7.40	24.27	1.15*

MAX DEPTH 328.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 41.10  
 DATE 30/ 4/77  
 TIME (PST) 1132

TAPE CZ0/78/ 2- 49  
 LONG W125 51.90  
 PASS NO. 19  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.93	11.29	18.95	73.15
2.1	2.1	26.95	9.94	20.73	48.11
5.2	5.2	27.79	9.51	21.44	18.81
10.4	10.4	28.93	8.48	22.49	20.62
15.1	15.1	29.44	8.10	22.93	25.55
20.0	20.1	30.07	7.69	23.48	11.68
25.2	25.3	30.13	7.62	23.54	5.77
30.2	30.3	30.29	7.55	23.67	8.34
35.1	35.3	30.41	7.51	23.77	7.61*
40.1	40.3	30.50	7.50	23.85	6.24*
45.3	45.5	30.55	7.50	23.89	4.42*
50.0	50.2	30.57	7.50	23.89	3.09
60.1	60.4	30.61	7.51	23.92	2.60*
70.3	70.6	30.63	7.52	23.94	2.71*
80.2	80.5	30.65	7.55	23.96	2.47*
90.1	90.5	30.67	7.57	23.97	2.32*
100.3	100.7	30.70	7.59	23.99	2.55*
110.0	110.5	30.73	7.60	24.01	1.35*
120.0	120.6	30.74	7.61	24.01	1.40*
130.0	130.6	30.77	7.40	24.07	+
140.3	140.9	30.79	7.40	24.08	+

MAX DEPTH 140.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 40.70  
 DATE 30/ 4/77  
 TIME (PST) 1151

TAPE CZ0/78/ 2- 50  
 LONG W125 54.40  
 PASS NO. 21  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.29	9.89	21.00	30.77
2.1	2.1	27.63	9.67	21.30	16.75
5.2	5.3	27.74	9.61	21.39	17.60
10.3	10.3	29.26	8.36	22.76	30.98
15.1	15.2	29.81	7.92	23.25	20.96
20.0	20.1	30.15	7.68	23.55	13.82
25.0	25.1	30.33	7.51	23.71	6.41
30.3	30.4	30.38	7.51	23.75	6.00
35.1	35.3	30.44	7.51	23.79	6.30*
40.2	40.4	30.51	7.50	23.86	5.05*
45.2	45.4	30.55	7.50	23.88	3.82*
50.1	50.3	30.57	7.50	23.89	3.18*
60.2	60.5	30.60	7.53	23.92	2.91*
70.2	70.5	30.63	7.54	23.94	3.02*
80.1	80.4	30.67	7.58	23.96	2.44*
90.0	90.4	30.68	7.59	23.97	1.68*
100.3	100.7	30.70	7.59	23.99	1.81*
110.3	110.8	30.71	7.59	24.00	1.64*
120.0	120.6	30.72	7.61	24.00	2.66
130.2	130.8	30.74	7.61	24.02	2.61*
140.3	140.9	30.77	7.61	24.04	2.28*
150.2	150.9	30.78	7.61	24.05	1.68*
160.2	160.9	30.80	7.61	24.06	1.50*
170.3	171.1	30.80	7.61	24.06	1.21*
180.3	181.1	30.81	7.61	24.07	1.09*
190.3	191.2	30.83	7.61	24.09	2.20*
200.1	201.1	30.84	7.61	24.09	2.14*
210.1	211.1	30.87	7.60	24.12	3.26*
220.1	221.2	30.89	7.59	24.13	2.20*
230.1	231.2	30.91	7.58	24.15	1.93*
240.0	241.2	30.92	7.58	24.16	1.77*
250.2	251.4	30.93	7.58	24.17	1.36*
260.1	261.3	30.94	7.56	24.18	3.15*
270.2	271.5	30.96	7.53	24.20	1.98*
280.0	281.3	30.97	7.51	24.21	1.35*
290.0	291.4	30.98	7.50	24.22	1.68*
300.0	301.5	30.99	7.50	24.22	1.22*
310.2	311.7	31.00	7.51	24.23	1.45*
320.1	321.6	31.00	7.52	24.23	.49*
330.0	331.6	31.01	7.50	24.24	1.29*
340.0	341.6	31.02	7.48	24.25	2.48*
360.0	361.8	31.03	7.47	24.27	1.33*

MAX DEPTH 365.7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 30/ 4/77  
 TIME (PST) 1228

TAPE CZ0/78/ 2- 51  
 LONG W125 57.20  
 PASS NO. 23  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.30	9.27	21.87	20.87
2.2	2.2	28.50	9.07	22.06	26.33
5.3	5.3	29.04	8.65	22.55	22.42
10.1	10.2	29.65	8.23	23.08	14.15
15.3	15.3	29.94	7.98	23.34	6.96
20.2	20.3	30.04	7.89	23.43	11.46*
25.2	25.3	30.26	7.79	23.61	8.63*
30.1	30.3	30.28	7.75	23.64	6.04*
35.3	35.5	30.33	7.75	23.68	5.13
40.3	40.5	30.37	7.72	23.72	6.22
45.1	45.3	30.39	7.66	23.74	4.00*
50.2	50.4	30.40	7.58	23.75	6.04
60.1	60.4	30.56	7.60	23.88	5.29*
70.0	70.3	30.64	7.64	23.94	3.92*
80.2	80.6	30.68	7.63	23.97	2.13*
90.2	90.6	30.69	7.62	23.98	2.13*
100.3	100.8	30.74	7.63	24.01	5.28*
110.2	110.7	30.76	7.62	24.03	3.24*
120.3	120.8	30.81	7.62	24.07	3.31*
130.1	130.7	30.83	7.62	24.09	1.93*
140.1	140.7	30.84	7.62	24.09	2.47*
150.1	150.8	30.88	7.61	24.13	4.17
160.2	161.0	30.94	7.58	24.18	3.36*
170.0	170.8	30.96	7.56	24.20	3.06
180.3	181.1	30.98	7.55	24.21	.80*
190.1	191.0	31.00	7.54	24.23	1.42*
200.0	201.0	31.01	7.54	24.23	1.70*
210.0	211.0	31.01	7.54	24.23	.85*
220.1	221.2	31.01	7.55	24.24	+
230.0	231.1	31.02	7.52	24.25	2.29*
240.1	241.2	31.02	7.53	24.25	.70*
250.2	251.4	31.02	7.46	24.26	1.62*
260.2	261.4	31.03	7.44	24.27	2.10*
270.2	271.5	31.04	7.42	24.27	.91*
280.2	281.6	31.04	7.42	24.28	1.46*
290.3	291.7	31.03	7.40	24.27	1.20*
300.1	301.5	31.03	7.40	24.27	.72*
310.2	311.7	31.03	7.40	24.27	1.45*
320.2	321.7	31.03	7.40	24.28	+
330.2	331.8	31.03	7.41	24.27	+

MAX DEPTH 332.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 30/ 4/77  
 TIME (PST) 1250

TAPE CZ0/78/ 2- 52  
 LONG W125 59.50  
 PASS NO. 25  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.00	9.53	21.60	32.07
2.0	2.1	29.02	8.60	22.53	42.93
5.4	5.4	30.40	7.61	23.75	9.09
10.3	10.3	30.48	7.63	23.81	4.76*
15.3	15.3	30.55	7.63	23.87	5.71*
20.0	20.1	30.58	7.62	23.89	4.53*
25.1	25.2	30.60	7.57	23.92	3.33*
30.1	30.2	30.62	7.55	23.93	3.21*
35.0	35.2	30.63	7.55	23.94	3.11*
40.1	40.2	30.66	7.57	23.96	2.54*
45.1	45.3	30.66	7.59	23.96	1.97*
50.1	50.3	30.67	7.59	23.96	1.51*
60.1	60.4	30.71	7.60	23.99	3.45
70.1	70.4	30.74	7.61	24.01	+
80.0	80.4	30.78	7.61	24.04	7.45

MAX DEPTH 86.7

CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 39.90  
 DATE 30/ 4/77  
 TIME (PST) 1317

TAPE CZ0/78/ 2- 53  
 LONG W126 4.20  
 PASS NO. 27  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	19.63	10.31	15.00	95.20
2.2	2.2	28.25	10.06	21.72	46.79
5.2	5.2	28.61	9.50	22.08	20.44
10.0	10.1	29.46	8.39	22.90	22.06
15.4	15.5	30.00	8.01	23.38	13.17
20.3	20.4	30.44	7.69	23.77	13.03
25.0	25.2	30.55	7.66	23.86	11.71
30.3	30.4	30.70	7.62	23.98	6.12*
35.3	35.5	30.71	7.62	24.00	4.59*
40.4	40.6	30.78	7.63	24.04	4.14
45.1	45.3	30.85	7.63	24.10	6.22*
50.0	50.3	30.96	7.65	24.18	6.00
60.3	60.6	31.03	7.64	24.24	4.29*
70.1	70.5	31.11	7.63	24.30	5.53*
80.3	80.7	31.23	7.61	24.40	5.59*
90.3	90.8	31.29	7.61	24.45	3.26*
100.1	100.6	31.31	7.61	24.47	2.30*
110.1	110.6	31.34	7.61	24.48	3.87
120.1	120.7	31.38	7.60	24.52	2.88*
130.3	131.0	31.40	7.60	24.53	1.48
140.1	140.9	31.42	7.60	24.55	2.69*
150.1	150.9	31.42	7.60	24.55	1.38*
160.2	161.0	31.42	7.60	24.55	.38*
170.1	170.9	31.44	7.60	24.56	2.20*
180.1	181.1	31.46	7.60	24.58	1.48*

MAX DEPTH 187.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 39.20  
 DATE 30/ 4/77  
 TIME (PST) 1358

TAPE CZ0/78/ 2- 54  
 LONG W126 12.50  
 PASS NO. 29  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.02	9.38	22.42	7.80
2.2	2.2	29.22	9.21	22.60	13.08
5.0	5.0	29.77	8.27	23.17	27.32
10.2	10.3	30.35	7.69	23.70	12.61
15.1	15.1	30.43	7.66	23.77	5.85
20.2	20.3	30.55	7.61	23.87	7.20
25.4	25.5	30.63	7.62	23.93	5.44
30.2	30.4	30.69	7.63	23.98	6.64
35.1	35.3	30.73	7.64	24.00	3.91*
40.1	40.3	30.73	7.65	24.00	5.81
45.0	45.2	30.78	7.66	24.04	8.24*
50.1	50.3	30.84	7.67	24.09	5.11
60.2	60.5	30.99	7.66	24.21	5.36
70.4	70.7	31.07	7.64	24.27	5.34
80.1	80.4	31.13	7.63	24.32	6.05*
90.1	90.6	31.29	7.61	24.45	5.58*
100.2	100.7	31.32	7.61	24.47	2.46*
110.3	110.8	31.35	7.61	24.49	3.57*
120.1	120.7	31.40	7.60	24.54	2.63*
130.0	130.7	31.41	7.60	24.54	1.34*
140.2	141.0	31.42	7.60	24.55	1.36*
150.0	150.8	31.45	7.60	24.57	2.07*
160.1	160.9	31.47	7.59	24.59	2.40*
170.1	171.0	31.50	7.58	24.61	2.26*
180.4	181.3	31.51	7.58	24.62	+

MAX DEPTH 187.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 38.50  
 DATE 30/ 4/77  
 TIME (PST) 1425

TAPE CZ0/78/ 2- 55  
 LONG W126 17.30  
 PASS NO. 31  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.98	10.60	22.20	23.02
2.0	2.1	29.15	9.39	22.52	16.33
5.0	5.0	29.42	8.81	22.82	29.27
10.0	10.0	30.06	8.02	23.43	13.15
15.2	15.3	30.22	7.89	23.57	13.17*
20.2	20.3	30.36	7.72	23.70	8.08
25.2	25.3	30.42	7.71	23.75	6.32
30.2	30.3	30.50	7.64	23.82	6.99*
35.4	35.5	30.59	7.67	23.89	9.53
40.0	40.2	30.70	7.66	23.98	6.14
45.1	45.3	30.77	7.68	24.03	6.81*
50.4	50.6	30.91	7.68	24.14	6.34
60.2	60.5	31.05	7.65	24.25	4.26
70.2	70.6	31.16	7.63	24.34	5.10*
80.1	80.5	31.22	7.63	24.39	4.24
90.2	90.7	31.25	7.62	24.41	3.10*
100.2	100.7	31.28	7.61	24.44	3.24*
110.3	110.9	31.32	7.61	24.47	2.91
120.1	120.7	31.37	7.60	24.51	3.79*
130.3	131.0	31.44	7.60	24.57	3.94*
140.3	141.0	31.47	7.59	24.59	3.41*
150.3	151.0	31.48	7.59	24.60	2.20*
160.2	161.0	31.50	7.58	24.61	4.08
170.2	171.1	31.52	7.57	24.64	+
180.3	181.2	31.52	7.58	24.63	2.10*
190.2	191.2	31.54	7.58	24.65	2.06*
200.1	201.1	31.52	7.58	24.63	+
210.0	211.1	31.54	7.58	24.65	1.27*
220.0	221.2	31.54	7.58	24.65	.96*
230.0	231.2	31.55	7.58	24.65	4.20
240.3	241.5	31.58	7.57	24.68	+

MAX DEPTH 243.3



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 3 KNIGHT INLET 1977  
 LAT N50 38.10  
 DATE 30/ 4/77  
 TIME (PST) 1507

TAPE CZ0/78/ 2- 56  
 LONG W126 25.20  
 PASS NO. 33  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.08	10.32	22.32	25.80
2.1	2.1	29.06	10.29	22.31	7.16*
5.1	5.1	29.20	9.65	22.51	18.51
10.1	10.2	30.31	7.94	23.64	11.23
15.1	15.2	30.45	7.83	23.76	10.30
20.1	20.2	30.60	7.75	23.88	7.65*
25.0	25.1	30.66	7.74	23.94	7.53*
30.2	30.4	30.79	7.83	24.02	5.57*
35.1	35.2	30.81	7.85	24.04	3.53*
40.2	40.4	30.84	7.90	24.06	3.13*
45.2	45.5	30.85	7.90	24.06	2.79*
50.3	50.6	30.88	7.93	24.08	5.83
60.0	60.3	30.98	7.87	24.17	4.29*
70.3	70.6	31.03	7.77	24.22	5.82
80.1	80.5	31.05	7.73	24.24	3.99
90.2	90.6	31.19	7.63	24.36	7.73*
100.0	100.5	31.25	7.62	24.41	5.02
110.1	110.7	31.31	7.61	24.47	2.24*
120.1	120.7	31.33	7.61	24.48	3.48
130.1	130.7	31.38	7.61	24.52	1.54*
140.1	140.8	31.40	7.60	24.53	1.47*
150.2	150.9	31.40	7.60	24.53	3.12*
160.1	161.0	31.45	7.60	24.57	2.55*
170.0	170.9	31.47	7.59	24.59	1.26*
180.2	181.1	31.47	7.59	24.59	1.09*
190.1	191.1	31.48	7.60	24.60	+
200.0	201.0	31.49	7.59	24.60	+
210.3	211.4	31.49	7.60	24.60	1.54*
220.3	221.4	31.50	7.59	24.61	2.22*
230.0	231.2	31.52	7.59	24.63	1.87*
240.1	241.4	31.54	7.58	24.65	+

MAX DEPTH 245.8

CRUISE NO. 4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N51 2.30  
 DATE 31/ 5/77  
 TIME (PST) 0742

TAPE CZ0/78/ 2- 57  
 LONG W125 33.80  
 PASS NO. 9  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.22	12.01	1.31	+
2.0	2.0	2.93	12.49	1.80	91.82
5.0	5.0	25.05	9.78	19.27	90.96
10.0	10.1	29.02	8.16	22.60	27.99
15.1	15.2	29.81	7.58	23.30	14.67
20.2	20.3	30.09	7.49	23.52	11.66
25.3	25.4	30.31	7.44	23.70	4.70
30.1	30.2	30.41	7.46	23.78	9.22
35.2	35.4	30.51	7.45	23.85	4.97
40.1	40.3	30.59	7.46	23.92	5.62
45.1	45.3	30.65	7.46	23.97	4.09
50.0	50.2	30.68	7.45	23.99	3.01*
60.1	60.4	30.72	7.40	24.03	3.15*
70.0	70.3	30.74	7.37	24.05	2.33*
80.2	80.5	30.76	7.34	24.07	2.47*
90.3	90.7	30.78	7.32	24.09	2.30*
100.2	100.7	30.80	7.31	24.10	1.92*
110.2	110.7	30.81	7.29	24.12	1.77*
120.0	120.6	30.82	7.28	24.12	2.36*
130.0	130.7	30.85	7.29	24.14	1.83*
140.2	140.9	30.86	7.28	24.15	1.77*
150.2	150.9	30.87	7.25	24.16	1.66*
160.1	160.8	30.87	7.24	24.17	2.14*
170.1	170.9	30.89	7.23	24.18	2.17*
180.1	180.9	30.91	7.25	24.19	1.77*
190.2	191.1	30.91	7.24	24.20	1.22*
200.0	201.0	30.92	7.24	24.21	1.99*
210.0	211.0	30.94	7.23	24.22	1.59*
220.0	221.1	30.94	7.23	24.22	1.24*

MAX DEPTH 226.9



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 58.90  
 DATE 31/ 5/77  
 TIME (PST) 0946

TAPE CZ0/78/ 2- 58  
 LONG W125 33.20  
 PASS NO. 11  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.00	11.97	1.14	+
2.1	2.1	4.99	12.12	3.44	96.72
5.1	5.1	26.30	10.05	20.20	85.69
10.1	10.1	29.00	8.27	22.57	28.52
15.1	15.2	29.87	7.58	23.34	18.43
20.2	20.2	30.15	7.49	23.57	9.95
25.1	25.2	30.32	7.46	23.71	11.16
30.2	30.3	30.47	7.45	23.83	7.58
35.0	35.2	30.58	7.46	23.91	8.03
40.2	40.4	30.67	7.45	23.98	5.21*
45.1	45.3	30.69	7.44	24.00	3.39*
50.1	50.3	30.71	7.41	24.02	2.78*
60.2	60.4	30.72	7.39	24.03	2.44*
70.0	70.4	30.75	7.36	24.06	2.63*
80.1	80.4	30.78	7.38	24.08	2.53*
90.2	90.7	30.80	7.33	24.10	2.36*
100.1	100.6	30.82	7.35	24.11	2.14*
110.2	110.7	30.83	7.32	24.13	1.98*
120.2	120.7	30.85	7.31	24.14	1.65*
130.0	130.6	30.86	7.30	24.15	1.55*
140.2	140.8	30.88	7.37	24.16	1.73*
150.4	151.1	30.88	7.34	24.17	1.86*
160.2	161.0	30.89	7.29	24.18	1.80*
170.1	170.9	30.90	7.28	24.19	1.50*
180.1	181.0	30.91	7.29	24.19	1.53*
190.1	191.0	30.92	7.28	24.20	1.32*
200.2	201.1	30.93	7.28	24.21	1.28*
210.3	211.3	30.94	7.27	24.22	1.83*
220.3	221.3	30.94	7.25	24.22	1.99*
230.3	231.4	30.95	7.23	24.23	1.86*
240.3	241.5	30.96	7.22	24.24	1.78*
250.3	251.5	30.97	7.22	24.25	1.81*
260.0	261.3	30.99	7.22	24.26	1.58*
270.2	271.5	31.00	7.22	24.27	1.47*
280.3	281.6	31.00	7.22	24.27	1.57*
290.2	291.6	31.01	7.22	24.28	1.73*
300.3	301.7	31.03	7.22	24.29	1.83*
310.2	311.7	31.04	7.23	24.30	

MAX DEPTH 319.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 54.30  
 DATE 31/ 5/77  
 TIME (PST) 1041

TAPE CZ0/78/ 2- 59  
 LONG W125 32.80  
 PASS NO. 13  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.83	12.75	1.69	20.56
2.1	2.0	5.52	12.94	3.74	90.40
5.0	5.0	24.46	10.84	18.66	105.63
10.0	10.0	28.94	8.56	22.48	23.84
15.1	15.1	29.78	7.75	23.24	20.06
20.0	20.1	30.22	7.51	23.62	10.84
25.0	25.2	30.36	7.45	23.74	5.48
30.0	30.2	30.46	7.45	23.82	8.49
35.1	35.3	30.57	7.46	23.90	7.57
40.0	40.2	30.63	7.46	23.95	4.19*
45.0	45.2	30.65	7.45	23.97	4.30
50.1	50.3	30.69	7.43	24.00	4.22*
60.1	60.4	30.72	7.43	24.03	3.10*
70.1	70.4	30.76	7.41	24.06	2.74*
80.0	80.4	30.79	7.42	24.08	2.18*
90.2	90.6	30.81	7.44	24.09	3.80
100.2	100.7	30.84	7.45	24.11	2.03*
110.1	110.6	30.85	7.44	24.12	1.50*
120.2	120.7	30.86	7.44	24.13	1.75*
130.2	130.8	30.88	7.44	24.15	2.11*
140.1	140.8	30.89	7.43	24.15	1.74*
150.1	150.8	30.90	7.43	24.17	1.93*
160.2	161.0	30.91	7.43	24.18	1.85*
170.1	170.9	30.92	7.43	24.18	1.65*
180.0	180.9	30.93	7.41	24.19	1.30*
190.0	190.9	30.94	7.42	24.20	1.51*
200.0	201.0	30.95	7.41	24.20	1.83*
210.1	211.1	30.95	7.38	24.22	2.00*
220.1	221.2	30.97	7.38	24.23	1.76*
230.2	231.3	30.97	7.36	24.23	1.82*
240.2	241.4	30.98	7.32	24.24	1.71*
250.1	251.3	30.99	7.33	24.25	1.40*
260.2	261.5	30.98	7.28	24.25	1.83*
270.2	271.5	30.99	7.28	24.26	1.53*
280.0	281.4	31.00	7.26	24.26	1.04*
290.1	291.5	31.00	7.26	24.26	1.32*
300.0	301.5	31.01	7.23	24.28	2.19*
310.1	311.6	31.02	7.23	24.29	2.01*
320.2	321.7	31.04	7.23	24.30	2.00*
330.1	331.7	31.05	7.23	24.31	2.44*
340.1	341.8	31.09	7.24	24.34	2.83*
360.0	361.8	31.13	7.26	24.37	2.17*
380.2	382.1	31.17	7.28	24.39	1.88*
400.2	402.2	31.17	7.29	24.40	.83*

MAX DEPTH 415.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 52.40  
 DATE 31/ 5/77  
 TIME (PST) 1133

TAPE CZ0/78/ 2- 60  
 LONG W125 38.50  
 PASS NO. 15  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	3.24	12.71	2.02	90.80
2.1	2.1	13.32	12.66	9.79	120.77
5.2	5.2	26.72	10.04	20.53	63.02
10.2	10.2	28.96	8.62	22.49	25.21
15.3	15.4	29.88	7.70	23.33	17.04
20.0	20.1	30.16	7.54	23.57	10.33
25.0	25.1	30.33	7.46	23.71	10.99
30.2	30.3	30.52	7.46	23.87	8.40
35.3	35.5	30.61	7.47	23.93	5.78
40.1	40.3	30.65	7.50	23.96	4.15*
45.3	45.5	30.67	7.52	23.97	3.19*
50.3	50.5	30.68	7.43	24.00	3.30*
60.0	60.3	30.72	7.45	24.02	3.85*
70.2	70.5	30.77	7.48	24.06	2.59*
80.2	80.6	30.80	7.45	24.09	2.40*
90.0	90.4	30.82	7.47	24.10	4.51
100.3	100.7	30.86	7.50	24.12	2.40*
110.3	110.8	30.86	7.50	24.13	1.55*
120.1	120.7	30.88	7.51	24.14	1.82*
130.2	130.8	30.90	7.51	24.15	2.19*
140.1	140.7	30.91	7.50	24.16	1.77*
150.1	150.9	30.93	7.55	24.17	1.96*
160.2	160.9	30.94	7.53	24.18	1.82*
170.2	171.0	30.94	7.48	24.19	1.65*
180.3	181.1	30.95	7.49	24.20	1.66*
190.2	191.1	30.96	7.47	24.21	1.57*
200.1	201.0	30.98	7.47	24.22	1.34*
210.2	211.2	30.98	7.42	24.23	1.70*
220.3	221.3	31.00	7.47	24.24	1.59*
230.1	231.2	30.99	7.45	24.24	1.41*
240.2	241.4	31.00	7.44	24.24	1.57*
250.2	251.4	31.00	7.41	24.25	1.51*
260.3	261.5	31.01	7.37	24.26	1.48*
270.2	271.5	31.01	7.37	24.26	1.36*
280.2	281.5	31.02	7.35	24.27	1.61*
290.1	291.5	31.02	7.27	24.28	2.03*
300.3	301.7	31.02	7.24	24.29	1.58*
310.2	311.7	31.03	7.26	24.29	1.69*
320.2	321.7	31.04	7.24	24.30	2.03*
330.0	331.6	31.06	7.24	24.32	2.30*
340.1	341.8	31.08	7.25	24.33	2.51*
360.2	362.0	31.14	7.27	24.37	2.07*
380.1	382.0	31.17	7.29	24.39	1.29*
400.2	402.2	31.17	7.29	24.40	1.09*
420.2	422.3	31.18	7.30	24.40	.94*
440.2	442.4	31.18	7.30	24.41	1.02*
460.1	462.4	31.19	7.30	24.41	.71*
480.1	482.5	31.19	7.30	24.41	

MAX DEPTH 487.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 47.90  
 DATE 31/ 5/77  
 TIME (PST) 1232

TAPE CZ0/78/ 2- 61  
 LONG W125 37.00  
 PASS NO. 17  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	10.63	12.98	7.67	21.30
2.1	2.1	11.20	13.02	8.11	30.79
5.1	5.1	23.47	11.40	17.81	121.65
10.1	10.2	28.93	8.65	22.46	38.78
15.2	15.3	29.74	7.89	23.20	17.01
20.1	20.2	30.15	7.57	23.56	14.35
25.1	25.2	30.34	7.49	23.72	10.48
30.2	30.3	30.47	7.47	23.82	4.88
35.0	35.2	30.51	7.48	23.86	5.51*
40.1	40.2	30.60	7.48	23.93	5.04
45.2	45.4	30.64	7.48	23.96	4.04*
50.1	50.3	30.67	7.48	23.98	3.94
60.0	60.3	30.72	7.51	24.02	28.55*
70.0	70.4	30.75	7.51	24.04	6.26*
80.1	80.4	30.79	7.52	24.07	2.49*
90.0	90.4	30.82	7.53	24.09	2.28*
100.1	100.6	30.84	7.55	24.11	2.16*
110.1	110.7	30.87	7.56	24.12	2.11*
120.2	120.7	30.89	7.56	24.14	2.36*
130.1	130.7	30.91	7.61	24.15	2.19*
140.2	140.8	30.92	7.60	24.16	1.60*
150.2	150.9	30.93	7.61	24.17	1.53*
160.2	161.0	30.94	7.61	24.17	1.53*
170.3	171.1	30.94	7.58	24.18	3.81*
180.1	180.9	30.97	7.57	24.20	3.74*
190.2	191.1	30.98	7.56	24.21	1.57*
200.3	201.2	30.98	7.55	24.21	1.60*
210.2	211.2	31.01	7.55	24.23	1.35*
220.2	221.2	31.02	7.56	24.24	.82*
230.0	231.1	31.01	7.56	24.24	.89*
240.1	241.3	31.02	7.57	24.24	1.04*
250.1	251.3	31.03	7.57	24.25	1.04*
260.1	261.4	31.03	7.53	24.25	1.26*
270.2	271.5	31.03	7.50	24.26	1.37*
280.1	281.4	31.03	7.46	24.26	1.34*
290.1	291.4	31.03	7.42	24.27	1.50*
300.1	301.6	31.03	7.38	24.27	1.52*
310.2	311.7	31.04	7.34	24.28	1.65*
320.3	321.8	31.04	7.31	24.29	1.68*
330.0	331.6	31.05	7.29	24.30	1.47*
340.1	341.8	31.06	7.29	24.31	1.82*
360.1	361.8	31.11	7.27	24.35	2.70*
380.2	382.1	31.15	7.30	24.38	1.76*
400.1	402.1	31.17	7.30	24.39	1.26*
420.1	422.2	31.18	7.31	24.40	1.13*
440.2	442.3	31.18	7.31	24.40	.75*
460.2	462.5	31.19	7.31	24.41	.82*
480.1	482.5	31.19	7.31	24.41	1.00*

MAX DEPTH 496.9



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 45.10  
 DATE 31/ 5/77  
 TIME (PST) 1320

TAPE CZ0/78/ 2- 62  
 LONG W125 41.00  
 PASS NO. 19  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	11.66	12.86	8.49	72.08
2.1	2.1	18.10	12.28	13.53	92.97
5.1	5.1	26.88	9.74	20.70	46.94
10.0	10.1	29.48	8.24	22.94	22.81
15.2	15.3	29.92	7.83	23.34	6.50
20.1	20.2	29.94	7.79	23.36	10.14*
25.2	25.3	30.30	7.53	23.68	8.28
30.2	30.3	30.44	7.49	23.80	7.34
35.1	35.2	30.50	7.49	23.84	5.71
40.1	40.3	30.59	7.49	23.92	5.01*
45.1	45.3	30.63	7.50	23.94	4.36*
50.1	50.3	30.67	7.52	23.97	4.85
60.2	60.4	30.71	7.52	24.00	2.90*
70.0	70.4	30.75	7.53	24.03	2.45*
80.0	80.4	30.77	7.52	24.05	2.58*
90.2	90.6	30.80	7.53	24.08	2.61*
100.3	100.8	30.83	7.54	24.09	2.19*
110.0	110.5	30.86	7.56	24.11	3.01
120.3	120.8	30.88	7.61	24.13	2.04*
130.3	130.9	30.90	7.57	24.15	3.19*
140.1	140.7	30.93	7.66	24.15	1.74*
150.3	151.0	30.94	7.65	24.17	2.42*
160.1	160.9	30.95	7.60	24.18	1.90*
170.1	170.9	30.97	7.65	24.19	.89*
180.2	181.0	30.97	7.64	24.19	1.74*
190.1	191.0	30.98	7.58	24.21	2.07*
200.1	201.0	31.00	7.59	24.22	2.08*
210.0	211.0	31.02	7.63	24.23	1.62*
220.2	221.3	31.02	7.62	24.23	.97*
230.2	231.3	31.03	7.62	24.24	1.78*
240.2	241.3	31.03	7.62	24.24	1.01*
250.1	251.3	31.03	7.62	24.24	.90*
260.0	261.3	31.04	7.63	24.25	1.61*
270.0	271.3	31.05	7.62	24.26	1.20*
280.2	281.5	31.05	7.61	24.26	1.52*
290.0	291.4	31.07	7.60	24.27	1.50*
300.2	301.6	31.06	7.54	24.28	2.19*
310.2	311.7	31.07	7.53	24.28	1.51*
320.1	321.6	31.08	7.44	24.30	2.54*
330.0	331.6	31.08	7.39	24.31	1.83*
340.1	341.8	31.09	7.36	24.33	1.43*
360.1	361.9	31.13	7.31	24.36	3.01
380.3	382.1	31.15	7.31	24.38	2.00*
400.0	402.0	31.17	7.31	24.39	.96*
420.1	422.2	31.18	7.31	24.40	1.11*
440.2	442.4	31.18	7.31	24.40	.86*
460.1	462.3	31.19	7.31	24.41	.55*
480.1	482.4	31.19	7.31	24.41	.72*

MAX DEPTH 490.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 41.90  
 DATE 31/ 5/77  
 TIME (PST) 1405

TAPE CZ0/78/ 2- 63  
 LONG W125 43.50  
 PASS NO. 21  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	15.26	12.56	11.30	154.94
2.0	2.0	26.25	10.01	20.18	75.34
5.0	5.0	27.81	9.16	21.51	32.04
10.2	10.3	29.81	8.01	23.24	23.62
15.1	15.1	30.09	7.81	23.48	15.00*
20.2	20.3	30.38	7.54	23.75	8.97
25.0	25.2	30.48	7.49	23.83	5.66
30.0	30.2	30.52	7.49	23.86	7.07
35.1	35.2	30.63	7.51	23.95	5.52
40.1	40.3	30.66	7.52	23.96	2.76*
45.1	45.3	30.67	7.53	23.97	4.23
50.2	50.4	30.71	7.54	24.00	4.15*
60.0	60.3	30.75	7.54	24.04	2.74*
70.2	70.5	30.79	7.53	24.07	4.79
80.1	80.5	30.83	7.55	24.09	2.44*
90.1	90.5	30.86	7.59	24.11	3.08*
100.1	100.6	30.90	7.63	24.14	2.17*
110.1	110.6	30.91	7.65	24.14	1.71*
120.0	120.6	30.93	7.66	24.16	1.98*
130.2	130.8	30.95	7.68	24.17	2.04*
140.0	140.7	30.96	7.69	24.18	1.73*
150.2	150.9	30.96	7.68	24.18	1.43*
160.2	161.0	30.98	7.68	24.19	1.83*
170.2	171.0	30.99	7.68	24.20	1.53*
180.0	180.9	31.00	7.67	24.21	1.79*
190.1	191.0	31.01	7.66	24.22	1.63*
200.1	201.0	31.02	7.68	24.22	1.51*
210.2	211.2	31.03	7.67	24.23	1.81*
220.1	221.1	31.03	7.66	24.24	1.24*
230.0	231.1	31.05	7.69	24.25	1.70*
240.1	241.3	31.06	7.69	24.26	1.58*
250.1	251.3	31.07	7.68	24.26	1.45*
260.2	261.4	31.07	7.67	24.27	1.62*
270.2	271.5	31.08	7.68	24.28	1.60*
280.1	281.4	31.09	7.67	24.28	1.24*
290.1	291.5	31.09	7.66	24.29	.98*
300.1	301.5	31.09	7.65	24.29	1.04*
310.2	311.7	31.10	7.68	24.29	1.25*
320.2	321.7	31.10	7.67	24.29	1.32*
330.0	331.6	31.10	7.65	24.29	1.71*
340.2	341.8	31.10	7.61	24.30	1.88*
360.2	362.0	31.12	7.38	24.34	3.85
380.1	382.0	31.15	7.32	24.38	1.68*
400.1	402.1	31.17	7.32	24.39	1.15*

MAX DEPTH 409.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 41.70  
 DATE 31/ 5/77  
 TIME (PST) 1439

TAPE CZ0/78/ 2- 64  
 LONG W125 46.60  
 PASS NO. 23  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	13.50	12.45	9.96	205.56
2.1	2.1	24.94	10.20	19.13	86.17
5.0	5.0	25.96	10.16	19.92	47.88
10.1	10.1	29.74	8.10	23.16	15.14
15.1	15.1	30.01	7.86	23.41	8.86
20.2	20.2	30.27	7.67	23.64	11.98*
25.1	25.2	30.37	7.55	23.74	9.30
30.1	30.2	30.56	7.51	23.89	10.63
35.1	35.3	30.62	7.53	23.94	4.53*
40.2	40.4	30.63	7.53	23.94	3.72
45.1	45.3	30.69	7.55	23.98	5.69
50.1	50.4	30.71	7.55	24.00	4.30*
60.1	60.4	30.76	7.54	24.05	3.59*
70.1	70.5	30.81	7.56	24.08	3.20*
80.1	80.5	30.84	7.62	24.10	2.00*
90.1	90.5	30.87	7.63	24.11	2.54*
100.2	100.7	30.90	7.66	24.13	3.11*
110.0	110.5	30.92	7.68	24.15	.96*
120.2	120.8	30.94	7.69	24.16	2.26*
130.2	130.8	30.95	7.70	24.17	1.54*
140.0	140.7	30.96	7.71	24.18	1.55*
150.1	150.8	30.97	7.71	24.18	2.14*
160.1	160.8	30.99	7.72	24.20	1.84*
170.2	171.0	31.00	7.70	24.21	1.97*
180.0	180.9	31.02	7.70	24.22	.81*
190.0	190.9	31.02	7.71	24.22	1.81*
200.0	201.0	31.03	7.71	24.23	1.44*
210.1	211.1	31.04	7.72	24.23	2.28*
220.2	221.2	31.06	7.71	24.25	1.52*
230.2	231.3	31.06	7.71	24.25	1.01*
240.2	241.3	31.06	7.72	24.25	+
250.2	251.4	31.06	7.70	24.26	.82*
260.0	261.3	31.07	7.69	24.26	1.48*
270.1	271.4	31.08	7.70	24.27	1.92*
280.1	281.4	31.09	7.70	24.28	1.38*
290.0	291.4	31.11	7.71	24.29	1.37*
300.1	301.5	31.11	7.72	24.29	1.66*
310.3	311.8	31.12	7.73	24.30	1.61*
320.1	321.7	31.12	7.73	24.30	1.32*
330.2	331.8	31.13	7.74	24.30	.86*
340.3	341.9	31.13	7.74	24.30	.98*
360.1	361.8	31.13	7.74	24.31	.58*
380.2	382.0	31.13	7.74	24.30	.68*

MAX DEPTH 396.2



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 41.60  
 DATE 31/ 5/77  
 TIME (PST) 1510

TAPE CZ0/78/ 2- 65  
 LONG W125 49.30  
 PASS NO. 25  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	16.37	12.04	12.23	181.34
2.1	2.1	26.39	9.98	20.29	90.78
5.0	5.0	28.61	8.88	22.18	35.63
10.1	10.1	29.65	8.18	23.09	9.89
15.1	15.2	29.85	8.02	23.27	15.60
20.1	20.2	30.21	7.81	23.57	9.54*
25.1	25.2	30.25	7.79	23.61	5.99*
30.2	30.3	30.36	7.72	23.70	6.79*
35.2	35.3	30.47	7.56	23.81	7.56
40.2	40.4	30.53	7.56	23.86	7.16
45.2	45.4	30.60	7.56	23.91	6.91
50.0	50.2	30.70	7.5	23.99	4.73*
60.3	60.5	30.73	7.54	24.02	2.93*
70.2	70.5	30.77	7.54	24.05	3.04*
80.3	80.7	30.80	7.56	24.07	1.93*
90.1	90.5	30.85	7.60	24.10	5.35*
100.4	100.9	30.88	7.65	24.12	2.52*
110.1	110.6	30.90	7.67	24.13	2.29*
120.3	120.8	30.92	7.69	24.15	2.10*
130.3	130.9	30.94	7.71	24.16	2.06*
140.3	141.0	30.96	7.72	24.17	2.18*
150.2	151.0	30.98	7.73	24.19	1.25*
160.4	161.1	30.99	7.72	24.19	.94*
170.0	170.8	30.98	7.73	24.19	1.32*
180.2	181.1	30.99	7.71	24.20	1.58*
190.0	190.9	31.00	7.71	24.20	1.45*
200.0	201.0	31.01	7.73	24.21	1.54*
210.1	211.1	31.02	7.74	24.22	1.85*
220.3	221.4	31.03	7.74	24.23	1.54*
230.1	231.2	31.04	7.74	24.23	1.42*
240.2	241.4	31.05	7.73	24.24	1.74*
250.2	251.4	31.06	7.72	24.25	1.64*
260.2	261.4	31.06	7.71	24.25	1.28*
270.1	271.4	31.06	7.70	24.26	2.01*
280.1	281.4	31.09	7.71	24.28	1.95*
290.2	291.6	31.10	7.72	24.28	1.11*
300.2	301.7	31.10	7.71	24.28	1.66*
310.0	311.5	31.12	7.72	24.30	2.18*
320.0	321.6	31.14	7.74	24.31	1.86*

MAX DEPTH 325.9



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 41.10  
 DATE 31/ 5/77  
 TIME (PST) 1537

TAPE CZ0/78/ 2- 66  
 LONG W125 51.90  
 PASS NO. 27  
 STN. 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	16.33	11.99	12.21	170.89
2.2	2.2	26.77	9.71	20.62	93.90
5.2	5.2	28.64	8.89	22.20	16.71
10.1	10.2	29.13	8.65	22.61	18.46
15.1	15.1	30.00	8.00	23.39	4.75
20.1	20.2	30.03	7.95	23.42	9.56*
25.0	25.1	30.33	7.66	23.69	11.24
30.1	30.2	30.44	7.58	23.78	6.37
35.0	35.2	30.54	7.55	23.87	8.64*
40.3	40.4	30.58	7.53	23.90	5.43
45.0	45.2	30.68	7.56	23.98	5.18
50.3	50.5	30.71	7.56	24.00	5.51*
60.2	60.5	30.80	7.55	24.07	2.44*
70.0	70.3	30.80	7.57	24.07	1.82*
80.1	80.4	30.83	7.60	24.09	1.96*
90.2	90.6	30.86	7.62	24.11	1.84*
100.3	100.7	30.88	7.66	24.12	1.99*
110.2	110.7	30.91	7.68	24.14	3.82*
120.0	120.6	30.93	7.71	24.15	1.67*
130.2	130.8	30.94	7.72	24.16	4.16
140.2	140.9	30.95	7.71	24.17	1.54*
150.1	150.8	30.95	7.71	24.17	1.51*
160.1	160.8	30.96	7.70	24.18	1.65*
170.2	171.0	30.97	7.72	24.18	.98*
180.2	181.0	30.99	7.76	24.19	1.02*
190.2	191.1	30.99	7.76	24.19	1.09*
200.2	201.2	31.00	7.76	24.20	1.19*
210.2	211.2	31.00	7.75	24.20	.96*
220.2	221.2	31.01	7.76	24.21	.92*
230.1	231.2	31.02	7.75	24.21	1.08*
240.1	241.3	31.02	7.76	24.21	1.56*
250.3	251.5	31.03	7.75	24.22	1.79*
260.4	261.7	31.04	7.75	24.23	1.57*
270.1	271.4	31.05	7.75	24.24	1.76*
280.3	281.6	31.06	7.75	24.25	1.50*
290.0	291.4	31.05	7.75	24.24	2.61
300.2	301.7	31.08	7.7	24.27	2.41*
310.1	311.6	31.09	7.73	24.27	1.89*
320.1	321.6	31.10	7.73	24.28	+

MAX DEPTH 321.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 40.70  
 DATE 31/ 5/77  
 TIME (PST) 1605

TAPE CZ0/78/ 2- 67  
 LONG W125 54.40  
 PASS NO. 29  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	25.85	10.03	19.86	65.70
2.1	2.1	27.69	9.30	21.39	38.31
5.0	5.0	28.09	9.14	21.73	18.03
10.1	10.1	29.29	8.52	22.76	26.12
15.2	15.2	30.20	8.02	23.53	12.25
20.0	20.1	30.39	7.84	23.71	11.33
25.2	25.3	30.51	7.62	23.83	11.34
30.1	30.3	30.61	7.65	23.91	4.69*
35.1	35.2	30.62	7.60	23.92	4.47
40.0	40.2	30.63	7.62	23.93	4.96*
45.0	45.2	30.68	7.61	23.97	4.27*
50.1	50.3	30.72	7.60	24.00	2.74*
60.0	60.3	30.73	7.55	24.01	2.99*
70.1	70.5	30.78	7.56	24.06	4.00*
80.0	80.4	30.83	7.62	24.09	2.74*
90.2	90.6	30.85	7.66	24.10	5.50
100.1	100.6	30.89	7.70	24.12	2.12*
110.1	110.6	30.94	7.74	24.16	2.25*
120.3	120.8	30.97	7.75	24.18	1.80*
130.2	130.8	30.98	7.75	24.19	.63*
140.2	140.9	30.99	7.76	24.19	1.12*
150.1	150.8	30.99	7.76	24.19	2.27*
160.3	161.0	31.01	7.76	24.20	.63*
170.1	170.9	31.02	7.76	24.21	2.10*
180.0	180.9	31.03	7.76	24.22	2.26*
190.3	191.2	31.03	7.76	24.22	+
200.1	201.1	31.03	7.76	24.22	1.04*
210.2	211.2	31.04	7.77	24.23	.57
220.4	221.5	31.04	7.77	24.23	+
230.3	231.4	31.04	7.77	24.23	+
240.0	241.2	31.07	7.76	24.25	3.70*
250.3	251.5	31.09	7.76	24.27	3.47*
260.2	261.5	31.10	7.76	24.28	1.49*
270.0	271.3	31.11	7.75	24.29	.98*
280.2	281.5	31.12	7.76	24.29	+
290.2	291.6	31.11	7.76	24.29	1.06*
300.1	301.5	31.11	7.76	24.29	+
310.4	311.8	31.11	7.76	24.29	1.43*
320.0	321.6	31.12	7.76	24.30	2.80*
330.1	331.8	31.15	7.75	24.32	1.29*
340.1	341.8	31.15	7.75	24.32	.91*
360.2	362.0	31.16	7.75	24.32	+

MAX DEPTH 365.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 31/ 5/77  
 TIME (PST) 1634

TAPE CZ0/78/ 2- 68  
 LONG W125 57.20  
 PASS NO. 30  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	19.26	11.16	14.59	92.24
2.1	2.1	23.15	10.75	17.66	62.05
5.1	5.1	28.28	9.06	21.90	90.12
10.2	10.2	30.27	8.00	23.60	6.83
15.1	15.1	30.37	7.94	23.68	6.41*
20.2	20.3	30.41	7.84	23.73	12.31
25.0	25.2	30.71	7.63	23.99	7.45
30.1	30.3	30.76	7.60	24.04	4.15*
35.1	35.3	30.78	7.60	24.05	2.16*
40.2	40.4	30.76	7.59	24.04	3.28*
45.2	45.4	30.81	7.62	24.07	3.58*
50.1	50.3	30.83	7.64	24.08	2.43*
60.2	60.5	30.85	7.65	24.09	1.24*
70.1	70.4	30.87	7.72	24.11	2.77*
80.1	80.4	30.93	7.7.	24.14	3.74*
90.2	90.6	30.94	7.73	24.16	1.66*
100.0	100.5	30.95	7.74	24.16	1.11*
110.2	110.7	30.95	7.73	24.17	.61*
120.2	120.8	30.96	7.73	24.17	1.17*
130.2	130.8	30.98	7.74	24.18	1.82*
140.1	140.7	30.99	7.75	24.19	1.92*
150.2	150.9	30.99	7.75	24.19	+
160.2	160.9	31.02	7.75	24.22	4.18
170.1	170.9	31.05	7.74	24.24	+
180.1	180.9	31.05	7.74	24.24	2.19*
190.1	191.0	31.06	7.74	24.25	.59*
200.2	201.1	31.07	7.74	24.25	.56*
210.2	211.2	31.07	7.74	24.25	.88*
220.1	221.2	31.07	7.74	24.25	.77*
230.2	231.3	31.07	7.74	24.25	.87*
240.3	241.5	31.08	7.74	24.26	2.09*
250.0	251.2	31.09	7.74	24.27	2.15
260.1	261.4	31.11	7.74	24.29	1.71*
270.2	271.5	31.12	7.75	24.29	1.01*
280.0	281.4	31.12	7.75	24.29	+
290.3	291.7	31.11	7.74	24.29	+
300.3	301.7	31.11	7.74	24.29	+
310.1	311.6	31.11	7.74	24.29	.87*

MAX DEPTH 316.3



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 31/ 5/77  
 TIME (PST) 1656

TAPE CZ0/78/ 2- 69  
 LONG W125 59.50  
 PASS NO. 33  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	19.29	11.45	14.58	86.17
2.1	2.1	24.60	10.24	18.86	83.85
5.1	5.1	29.58	8.32	23.01	14.88
10.1	10.2	30.49	7.82	23.79	13.56
15.1	15.2	30.71	7.58	24.00	9.33
20.2	20.3	30.79	7.70	24.04	5.74
25.0	25.1	30.80	7.64	24.06	4.84*
30.0	30.2	30.88	7.75	24.11	4.28*
35.0	35.2	30.91	7.76	24.13	3.42*
40.3	40.4	30.92	7.76	24.14	2.99*
45.2	45.4	30.92	7.75	24.14	2.87*
50.1	50.4	30.94	7.75	24.15	2.61*
60.1	60.4	30.96	7.7	24.17	3.14

MAX DEPTH 69.3

CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 39.90  
 DATE 31/ 5/77  
 TIME (PST) 1719

TAPE CZ0/78/ 2- 70  
 LONG W126 4.20  
 PASS NO. 35  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.65	10.40	18.88	72.55
2.1	2.1	26.99	9.45	20.84	48.16
5.1	5.1	28.48	8.84	22.08	20.47
10.2	10.3	29.10	8.71	22.58	25.18
15.1	15.1	30.11	8.14	23.45	14.21
20.1	20.2	30.39	7.95	23.70	8.97
25.1	25.2	30.58	7.86	23.85	12.95
30.1	30.2	30.78	7.77	24.03	7.85
35.2	35.4	30.85	7.76	24.08	4.62
40.2	40.4	30.88	7.77	24.10	4.44*
45.2	45.5	30.92	7.78	24.13	3.63*
50.1	50.3	30.94	7.81	24.15	3.08*
60.1	60.4	30.97	7.83	24.17	2.30*
70.1	70.4	31.00	7.82	24.19	3.94*
80.1	80.5	31.09	7.81	24.26	4.77*
90.3	90.7	31.15	7.83	24.30	4.44*
100.3	100.8	31.24	7.81	24.38	4.95*
110.0	110.6	31.31	7.79	24.44	4.83*
120.3	120.9	31.40	7.72	24.51	4.59
130.1	130.7	31.42	7.72	24.53	2.74*
140.3	141.1	31.47	7.73	24.57	4.15
150.3	151.0	31.52	7.72	24.61	2.85*
160.1	161.0	31.54	7.72	24.63	2.19*
170.2	171.0	31.55	7.73	24.63	1.15*
180.0	181.0	31.57	7.72	24.65	1.89*
190.3	191.3	31.57	7.72	24.65	+

MAX DEPTH 191.2



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 39.20  
 DATE 31/ 5/77  
 TIME (PST) 1808

TAPE CZ0/78/ 2- 71  
 LONG W126 12.50  
 PASS NO. 37  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.12	9.21	21.75	6.22
2.1	2.1	28.73	9.01	22.25	20.48
5.1	5.2	29.62	8.5.	23.02	30.74
10.0	10.0	30.40	8.0	23.69	8.09
15.3	15.4	30.47	8.08	23.74	9.69*
20.3	20.4	30.77	7.97	23.99	9.84*
25.1	25.2	30.89	7.93	24.09	7.18*
30.4	30.5	30.97	7.97	24.15	5.36*
35.3	35.4	31.04	7.93	24.20	4.19*
40.2	40.4	31.04	7.91	24.21	3.26*
45.0	45.2	31.06	7.91	24.22	2.49*
50.0	50.3	31.07	7.96	24.23	3.52
60.0	60.3	31.10	7.88	24.26	4.49*
70.2	70.6	31.32	7.80	24.44	7.46
80.3	80.7	31.41	7.76	24.52	5.04
90.2	90.6	31.48	7.75	24.58	3.39*
100.2	100.7	31.50	7.74	24.59	2.32*
110.1	110.7	31.52	7.74	24.61	1.21*
120.1	120.7	31.54	7.73	24.62	2.94*
130.1	130.8	31.55	7.7 <sub>2</sub>	24.64	2.44*
140.0	140.8	31.58	7.72	24.66	2.34*
150.1	150.8	31.61	7.71	24.68	1.26*
160.4	161.2	31.61	7.72	24.68	1.26*
170.1	171.0	31.62	7.71	24.69	1.15*
180.0	181.0	31.65	7.71	24.71	+

MAX DEPTH 180.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 38.50  
 DATE 31/ 5/77  
 TIME (PST) 1844

TAPE CZ0/78/ 2- 72  
 LONG W126 17.30  
 PASS NO. 39  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.41	9.16	21.98	54.75
2.1	2.1	29.45	8.68	22.86	26.11
5.3	5.3	29.64	8.55	23.02	11.23
10.0	10.0	29.84	8.42	23.20	16.35
15.1	15.2	30.09	8.31	23.41	12.42
20.0	20.1	30.37	8.21	23.65	11.41
25.1	25.2	30.57	8.09	23.82	6.44
30.0	30.2	30.56	8.11	23.81	+
35.0	35.2	30.58	8.12	23.82	7.29
40.1	40.3	30.78	8.07	23.98	6.88
45.1	45.3	30.84	8.04	24.04	7.20
50.2	50.4	30.90	8.03	24.08	6.53*
60.2	60.5	31.05	8.02	24.20	4.29*
70.0	70.4	31.16	7.87	24.31	10.96
80.1	80.5	31.24	7.86	24.37	2.34*
90.1	90.6	31.28	7.85	24.40	5.33
100.2	100.7	31.39	7.78	24.50	3.46*
110.2	110.8	31.45	7.76	24.55	4.84*
120.2	120.9	31.48	7.74	24.58	2.53*
130.3	130.9	31.49	7.74	24.59	1.57*
140.2	140.9	31.50	7.74	24.59	1.47*
150.2	151.0	31.51	7.74	24.60	2.01*
160.0	160.8	31.53	7.74	24.62	3.28*
170.3	171.1	31.58	7.72	24.66	+
180.1	181.1	31.63	7.71	24.70	.69*
190.2	191.2	31.65	7.71	24.71	2.68*
200.2	201.2	31.66	7.70	24.73	1.85*
210.1	211.2	31.68	7.70	24.74	1.63*
220.2	221.3	31.69	7.70	24.75	1.23*
230.1	231.3	31.71	7.69	24.77	3.47*

MAX DEPTH 234.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 4 KNIGHT INLET 1977  
 LAT N50 38.10  
 DATE 31/ 5/77  
 TIME (PST) 1930

TAPE CZ0/78/ 2- 73  
 LONG W126 25.20  
 PASS NO. 41  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.28	9.21	22.65	4.85
2.0	2.0	29.32	9.17	22.68	4.67
5.1	5.1	29.52	8.91	22.88	22.74
10.1	10.2	29.74	8.68	23.09	8.18
15.2	15.2	30.15	8.55	23.42	13.20
20.3	20.4	30.36	8.49	23.60	12.87
25.0	25.1	30.68	8.35	23.87	11.29*
30.3	30.4	30.72	8.29	23.91	9.59
35.2	35.4	30.97	8.16	24.12	12.90
40.0	40.2	31.05	8.09	24.19	7.67*
45.0	45.2	31.17	8.01	24.30	6.82
50.1	50.4	31.21	7.98	24.33	5.66
60.2	60.5	31.22	7.97	24.35	2.42*
70.2	70.5	31.29	7.89	24.41	4.43
80.2	80.6	31.38	7.81	24.49	5.66*
90.3	90.8	31.43	7.80	24.53	1.89
100.1	100.6	31.47	7.77	24.56	2.79*
110.3	110.8	31.48	7.77	24.57	.49*
120.0	120.6	31.47	7.77	24.57	3.22*
130.0	130.7	31.53	7.74	24.62	3.64*
140.1	140.8	31.57	7.73	24.65	3.11*
150.1	150.9	31.61	7.72	24.68	3.56*
160.3	161.1	31.62	7.71	24.69	.78*
170.1	171.0	31.62	7.72	24.69	1.39*
180.1	181.0	31.64	7.71	24.71	3.92
190.0	191.0	31.66	7.71	24.72	1.61*
200.2	201.2	31.65	7.71	24.72	+
210.1	211.2	31.65	7.71	24.72	+
220.0	221.2	31.66	7.71	24.72	1.55*
230.2	231.4	31.66	7.71	24.73	1.19*
240.2	241.5	31.66	7.71	24.73	.88*
250.1	251.4	31.67	7.71	24.73	3.07*

MAX DEPTH 252.2

CRUISE NO. 5





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 5 KNIGHT INLET 1977  
 LAT N51 2.30  
 DATE 29/ 6/77  
 TIME (PST) 0709

TAPE CZ0/78/ 9- 34  
 LONG W125 33.80  
 PASS NO. 1  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.00	7.98	-.06	1.05
2.1	2.1	.00	7.87	-.05	9.80
5.0	5.0	.20	8.07	.09	184.98
10.1	10.1	28.46	8.52	22.11	110.91*
15.2	15.2	29.65	7.66	23.16	39.18
20.0	20.1	30.02	7.51	23.46	12.09
25.3	25.4	30.22	7.47	23.63	9.38
30.2	30.3	30.42	7.45	23.79	10.29
35.1	35.2	30.57	7.46	23.90	8.01
40.1	40.3	30.64	7.46	23.95	4.55
45.2	45.4	30.68	7.43	23.99	4.74
50.2	50.4	30.71	7.40	24.02	4.19*
60.2	60.5	30.76	7.35	24.07	4.11*
70.3	70.6	30.81	7.33	24.11	3.82*
80.1	80.5	30.82	7.31	24.12	1.99*
90.0	90.4	30.84	7.30	24.13	2.04*
100.2	100.7	30.86	7.29	24.15	2.12*
110.1	110.6	30.88	7.29	24.17	1.96*
120.3	120.9	30.90	7.30	24.18	1.64*
130.2	130.8	30.90	7.31	24.18	1.52*
140.2	140.8	30.91	7.30	24.19	1.69*
150.2	150.9	30.91	7.30	24.19	1.85*
160.1	160.9	30.92	7.27	24.20	1.86*
170.2	171.0	30.93	7.25	24.21	1.57*
180.2	181.1	30.94	7.25	24.22	1.35*
190.2	191.1	30.95	7.24	24.23	3.54
200.1	201.1	30.95	7.24	24.23	1.48*
210.2	211.2	30.96	7.24	24.24	1.40*
220.1	221.2	30.97	7.24	24.24	

MAX DEPTH 226.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 5 KNIGHT INLET 1977  
 LAT N50 58.90  
 DATE 29/ 6/77  
 TIME (PST) 0748

TAPE CZ0/78/ 9- 35  
 LONG W125 33.20  
 PASS NO. 3  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.23	9.52	.01	16.36
2.1	2.1	.25	8.64	.10	10.15
5.1	5.0	.40	8.62	.21	36.77*
10.1	10.1	28.65	8.62	22.24	85.24
15.1	15.1	29.67	7.74	23.16	18.34
20.0	20.1	30.08	7.51	23.51	13.96
25.1	25.2	30.32	7.45	23.71	9.76
30.0	30.1	30.49	7.45	23.84	7.75
35.3	35.5	30.59	7.46	23.92	4.26
40.2	40.3	30.65	7.45	23.96	4.84
45.2	45.4	30.69	7.43	24.00	3.89*
50.0	50.3	30.71	7.40	24.02	3.88*
60.2	60.5	30.76	7.35	24.07	3.93*
70.0	70.4	30.80	7.31	24.10	2.72*
80.2	80.6	30.82	7.30	24.12	2.22*
90.2	90.6	30.85	7.30	24.14	2.36*
100.3	100.8	30.87	7.33	24.16	2.22*
110.1	110.6	30.88	7.32	24.17	1.96*
120.2	120.8	30.89	7.31	24.18	+

MAX DEPTH 121.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 5 KNIGHT INLET 1977  
 LAT N50 54.30  
 DATE 29/ 6/77  
 TIME (PST) 0850

TAPE CZ0/78/ 9- 36  
 LONG W125 32.80  
 PASS NO. 6  
 STN: 3 - KNO

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.30	10.09	.02	13.44
2.1	2.0	.36	9.39	.13	15.11
5.2	5.1	1.59	9.43	1.08	42.90*
10.2	10.2	28.17	8.91	21.83	88.29
15.1	15.1	29.50	7.93	23.01	20.44
20.1	20.2	30.01	7.55	23.46	13.72
25.3	25.4	30.29	7.47	23.68	9.24
30.2	30.4	30.45	7.45	23.81	6.94
35.2	35.4	30.57	7.46	23.90	4.50
40.1	40.3	30.63	7.46	23.95	5.19
45.2	45.4	30.68	7.44	24.00	5.16
50.0	50.3	30.72	7.40	24.03	4.43*
60.2	60.5	30.75	7.37	24.06	5.28
70.3	70.6	30.80	7.33	24.10	3.10*
80.1	80.5	30.84	7.35	24.13	2.64*
90.3	90.7	30.87	7.37	24.15	2.54*
100.4	100.8	30.89	7.43	24.16	2.28*
110.2	110.7	30.90	7.46	24.16	1.48*
120.2	120.8	30.93	7.46	24.18	1.24*
130.4	131.0	30.93	7.45	24.19	1.78
140.3	141.0	30.95	7.42	24.20	2.31*
150.2	150.9	30.96	7.46	24.21	1.22*
160.1	160.9	30.97	7.48	24.21	1.08*
170.2	171.0	30.97	7.45	24.22	+
180.2	181.0	30.97	7.44	24.22	1.24*
190.2	191.1	30.98	7.46	24.23	1.47*
200.2	201.1	30.99	7.46	24.23	1.22*
210.0	211.0	30.99	7.36	24.24	1.10*
220.3	221.4	30.99	7.36	24.25	.96*
230.2	231.3	31.00	7.39	24.25	3.82*
240.1	241.3	31.00	7.37	24.25	+
250.1	251.3	31.01	7.37	24.26	1.10*
260.0	261.3	31.01	7.36	24.26	1.26*
270.1	271.4	31.01	7.34	24.26	1.38*
280.2	281.5	31.02	7.34	24.27	.65*
290.1	291.5	31.02	7.32	24.27	1.34*
300.4	301.8	31.02	7.28	24.28	1.58*
310.0	311.5	31.03	7.26	24.29	1.65*
320.2	321.7	31.04	7.26	24.29	1.61*
330.3	331.9	31.05	7.24	24.31	1.71*
340.1	341.7	31.06	7.24	24.32	3.71*
360.2	362.0	31.10	7.25	24.34	2.25*
380.2	382.1	31.13	7.27	24.37	1.69*
400.1	402.0	31.15	7.28	24.38	1.46*

MAX DEPTH 411.7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 5 KNIGHT INLET 1977  
 LAT N50 52.40  
 DATE 29/ 6/77  
 TIME (PST) 0935

TAPE CZ0/78/ 9- 37  
 LONG W125 38.50  
 PASS NO. 8  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.65	11.46	.16	134.83
2.1	2.1	.65	11.41	.16	34.32*
5.0	5.0	1.09	11.42	.50	87.23
10.1	10.1	27.83	9.31	21.50	39.64
15.1	15.1	29.27	8.38	22.76	23.96
20.3	20.4	29.83	7.81	23.28	15.53
25.3	25.4	30.13	7.57	23.55	10.17
30.0	30.2	30.31	7.49	23.70	7.01
35.0	35.2	30.42	7.47	23.78	6.90
40.4	40.6	30.55	7.46	23.88	8.07
45.2	45.4	30.61	7.47	23.93	4.79
50.3	50.5	30.66	7.45	23.98	5.04
60.3	60.5	30.75	7.38	24.05	4.73*
70.0	70.3	30.79	7.38	24.09	4.25
80.0	80.4	30.82	7.38	24.11	2.77*
90.1	90.5	30.85	7.42	24.13	2.66*
100.5	100.9	30.88	7.44	24.15	2.55*
110.0	110.5	30.90	7.46	24.16	2.19*
120.2	120.8	30.93	7.48	24.18	2.15*
130.1	130.7	30.94	7.47	24.19	1.92*
140.4	141.0	30.94	7.46	24.20	2.24*
150.1	150.8	30.96	7.45	24.21	1.94*
160.3	161.0	30.98	7.53	24.21	+
170.0	170.9	30.96	7.52	24.20	.74*
180.0	180.9	30.98	7.48	24.22	1.37*
190.1	191.0	30.99	7.50	24.23	.83*
200.1	201.1	30.99	7.55	24.22	+
210.2	211.2	31.01	7.53	24.24	1.31*
220.1	221.2	31.01	7.52	24.24	1.38*
230.2	231.3	31.00	7.51	24.24	.85*
240.1	241.3	31.02	7.51	24.25	1.09*
250.3	251.5	31.02	7.51	24.25	+
260.0	261.3	31.02	7.46	24.26	1.48*
270.1	271.4	31.03	7.46	24.26	1.37*
280.3	281.7	31.04	7.49	24.27	1.52*
290.4	291.8	31.04	7.43	24.28	1.88*
300.1	301.5	31.04	7.40	24.28	1.57*
310.3	311.8	31.04	7.37	24.29	1.17*
320.1	321.6	31.05	7.37	24.29	1.31*
330.2	331.8	31.04	7.34	24.29	2.56
340.3	341.9	31.05	7.29	24.31	1.77*
360.2	361.9	31.09	7.26	24.34	2.55*
380.4	382.2	31.13	7.28	24.37	1.53*
400.3	402.2	31.14	7.28	24.38	1.36*
420.2	422.2	31.16	7.29	24.39	1.24*
440.3	442.5	31.16	7.29	24.38	.62*
460.3	462.6	31.16	7.29	24.39	.76*
480.2	482.6	31.16	7.30	24.39	

MAX DEPTH 482.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 5 KNIGHT INLET 1977  
 LAT N50 47.90  
 DATE 29/ 6/77  
 TIME (PST) 1036

TAPE CZ0/78/ 9- 38  
 LONG W125 37.00  
 PASS NO. 10  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.98	12.69	.26	11.89
2.1	2.0	1.64	12.07	.85	41.67
5.0	5.0	12.09	11.94	8.95	150.99
10.1	10.1	28.18	9.04	21.81	32.80
15.1	15.1	29.64	8.02	23.10	23.50
20.1	20.2	30.09	7.64	23.51	12.02
25.2	25.3	30.31	7.54	23.69	10.18
30.1	30.3	30.46	7.53	23.81	7.11*
35.0	35.2	30.53	7.48	23.87	6.13
40.0	40.2	30.60	7.47	23.93	5.75
45.1	45.3	30.67	7.46	23.98	5.74
50.0	50.3	30.72	7.45	24.03	5.52
60.3	60.6	30.79	7.42	24.08	3.51
70.1	70.4	30.83	7.45	24.11	3.13*
80.0	80.4	30.86	7.46	24.13	2.14*
90.1	90.6	30.88	7.47	24.14	3.19*
100.2	100.7	30.90	7.49	24.15	2.36*
110.2	110.7	30.92	7.50	24.17	1.99*
120.2	120.8	30.94	7.53	24.18	2.00*
130.4	131.0	30.96	7.56	24.19	1.72*
140.1	140.8	30.97	7.57	24.20	3.65*
150.0	150.7	30.99	7.62	24.21	1.51*
160.1	160.9	31.00	7.62	24.22	1.25*
170.0	170.8	31.01	7.62	24.22	1.39*
180.3	181.1	31.02	7.65	24.23	1.51*
190.1	191.0	31.05	7.69	24.25	1.27*
200.2	201.1	31.04	7.70	24.24	3.45
210.1	211.1	31.04	7.64	24.24	3.50
220.3	221.3	31.06	7.71	24.25	1.14*
230.1	231.2	31.07	7.72	24.26	1.31*
240.2	241.4	31.07	7.71	24.26	1.46*
250.1	251.3	31.07	7.68	24.26	1.26*
260.2	261.4	31.07	7.70	24.26	1.25*
270.1	271.4	31.07	7.70	24.27	.86*
280.3	281.6	31.06	7.59	24.27	1.65*
290.1	291.5	31.07	7.60	24.28	1.04*
300.2	301.6	31.07	7.56	24.28	1.63*
310.3	311.8	31.07	7.54	24.29	1.80*
320.0	321.6	31.09	7.51	24.30	1.78*
330.1	331.7	31.08	7.41	24.31	2.40*
340.3	341.9	31.09	7.35	24.32	2.56
360.1	361.9	31.11	7.28	24.35	2.48*
380.1	382.0	31.14	7.31	24.37	1.28*
400.2	402.2	31.16	7.30	24.38	1.02*
420.1	422.2	31.16	7.31	24.39	.91*
440.3	442.5	31.17	7.31	24.39	1.05*
460.0	462.3	31.17	7.30	24.39	1.00*
480.2	482.6	31.17	7.31	24.39	1.02*

MAX DEPTH 493.9

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 5 KNIGHT INLET 1977

LAT N50 45.10

DATE 29/ 6/77

TIME (PST) 1120

TAPE CZ0/78/ 9- 39

LONG W125 41.00

PASS NO. 12

STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	5.53	12.40	3.82	136.47
2.1	2.0	6.05	12.40	4.23	30.90*
5.1	5.1	21.81	10.77	16.62	83.20
10.2	10.3	28.46	8.92	22.05	29.93
15.3	15.3	29.66	8.11	23.11	22.57
20.0	20.1	29.93	7.82	23.35	11.46
25.3	25.4	30.22	7.59	23.61	8.78
30.2	30.3	30.34	7.59	23.71	10.12
35.0	35.2	30.53	7.60	23.85	5.35
40.2	40.4	30.61	7.48	23.93	7.63
45.1	45.3	30.71	7.44	24.01	5.21
50.0	50.3	30.73	7.43	24.03	4.12*
60.1	60.4	30.79	7.45	24.07	5.55*
70.2	70.5	30.82	7.47	24.10	4.51
80.2	80.6	30.86	7.49	24.13	2.35*
90.4	90.8	30.89	7.51	24.15	2.28*
100.2	100.7	30.91	7.54	24.16	3.03
110.2	110.8	30.93	7.58	24.17	2.66*
120.2	120.8	30.95	7.58	24.18	1.80*
130.2	130.8	30.96	7.60	24.19	1.50*
140.0	140.7	30.98	7.65	24.20	4.47*
150.1	150.8	31.01	7.68	24.21	4.39*
160.4	161.2	31.01	7.69	24.22	1.66*
170.2	171.0	31.03	7.72	24.23	1.36*
180.1	181.0	31.03	7.72	24.23	1.09*
190.1	191.0	31.04	7.73	24.24	1.25*
200.3	201.3	31.05	7.72	24.24	1.14*
210.1	211.1	31.06	7.72	24.25	1.15*
220.0	221.1	31.07	7.76	24.25	1.00*
230.1	231.2	31.07	7.75	24.26	.78*
240.0	241.2	31.09	7.76	24.27	.99*
250.3	251.5	31.09	7.79	24.27	1.13*
260.1	261.3	31.09	7.80	24.26	1.01*
270.4	271.7	31.10	7.79	24.27	1.24*
280.3	281.7	31.11	7.79	24.28	1.34*
290.2	291.6	31.10	7.73	24.28	1.38*
300.3	301.7	31.09	7.67	24.28	1.67*
310.3	311.8	31.08	7.59	24.29	1.96*
320.1	321.7	31.08	7.53	24.30	1.93*
330.0	331.6	31.10	7.49	24.31	1.86*
340.1	341.7	31.11	7.46	24.32	2.21*
360.0	361.8	31.13	7.36	24.36	2.26*
380.2	382.0	31.15	7.34	24.38	1.53*
400.2	402.2	31.17	7.32	24.39	1.23*
420.1	422.2	31.17	7.32	24.39	.75*
440.3	442.4	31.16	7.32	24.39	.60*
460.1	462.3	31.17	7.31	24.39	.70*
480.1	482.5	31.17	7.31	24.39	.78*

MAX DEPTH 492.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 5 KNIGHT INLET 1977  
 LAT N50 41.90  
 DATE 29/ 6/77  
 TIME (PST) 1218

TAPE CZ0/78/ 9- 40  
 LONG W125 43.50  
 PASS NO. 14  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.18	12.98	-.39	64.33
2.1	2.1	6.07	13.05	4.15	29.67
5.1	5.1	6.46	12.95	4.47	38.91
10.1	10.1	27.88	9.06	21.58	38.43
15.3	15.3	29.14	8.57	22.63	25.76
20.1	20.2	29.76	8.13	23.18	22.35
25.1	25.2	30.17	7.79	23.54	7.28
30.0	30.1	30.26	7.79	23.62	7.58
35.3	35.4	30.46	7.82	23.77	7.96*
40.2	40.3	30.55	7.73	23.85	7.81
45.3	45.5	30.62	7.58	23.93	4.40
50.2	50.4	30.69	7.47	24.00	7.53
60.1	60.4	30.77	7.46	24.06	4.86
70.2	70.5	30.83	7.47	24.10	3.23*
80.4	80.8	30.86	7.51	24.12	2.74*
90.0	90.4	30.89	7.54	24.14	1.85*
100.2	100.7	30.90	7.56	24.15	1.08*
110.2	110.8	30.92	7.58	24.16	2.09*
120.2	120.7	30.93	7.60	24.17	2.38*
130.4	131.0	30.96	7.62	24.19	1.36*
140.3	140.9	30.98	7.66	24.19	1.24*
150.2	150.9	30.99	7.70	24.20	3.21*
160.1	160.9	31.01	7.72	24.21	2.26*
170.1	170.9	31.03	7.73	24.22	1.65*
180.2	181.0	31.03	7.73	24.23	1.12*
190.1	191.0	31.03	7.74	24.23	3.99*
200.4	201.3	31.04	7.73	24.23	.83*
210.0	211.0	31.04	7.74	24.23	.82*
220.1	221.1	31.05	7.74	24.24	1.39*
230.2	231.3	31.07	7.79	24.25	1.92*
240.1	241.2	31.08	7.81	24.26	1.54*
250.1	251.3	31.10	7.81	24.27	3.98
260.0	261.3	31.10	7.80	24.27	1.03*
270.1	271.4	31.10	7.81	24.27	1.29*
280.0	281.4	31.11	7.82	24.28	1.29*
290.2	291.6	31.11	7.81	24.28	1.10*
300.1	301.6	31.11	7.80	24.28	.87*
310.1	311.6	31.12	7.80	24.29	.34*
320.2	321.8	31.11	7.76	24.28	1.05*
330.1	331.7	31.11	7.75	24.29	1.10*
340.1	341.7	31.11	7.70	24.29	1.71*
360.3	362.0	31.12	7.62	24.31	3.65
380.2	382.1	31.14	7.44	24.35	1.00*
400.1	402.1	31.14	7.42	24.36	+

MAX DEPTH 401.5



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 5 KNIGHT INLET 1977  
 LAT N50 41.70  
 DATE 29/ 6/77  
 TIME (PST) 1252

TAPE CZ0/78/ 9- 41  
 LONG W125 46.60  
 PASS NO. 16  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	10.17	13.21	7.29	32.78
2.1	2.1	10.83	13.11	7.81	16.27
5.1	5.1	12.17	12.56	8.92	41.27
10.1	10.1	27.08	9.51	20.89	79.98
15.1	15.1	29.87	8.13	23.27	8.91
20.2	20.2	29.97	8.08	23.35	11.03*
25.2	25.3	30.33	7.95	23.65	10.37
30.2	30.4	30.52	7.81	23.82	9.67
35.0	35.2	30.67	7.61	23.96	4.92
40.1	40.3	30.72	7.58	24.01	4.03*
45.2	45.4	30.74	7.55	24.02	4.04
50.0	50.3	30.76	7.47	24.05	5.94
60.1	60.4	30.82	7.47	24.10	2.99*
70.2	70.5	30.85	7.51	24.11	2.45*
80.1	80.4	30.88	7.53	24.14	3.27
90.1	90.6	30.91	7.56	24.15	2.34*
100.0	100.5	30.93	7.58	24.17	2.42*
110.1	110.6	30.96	7.65	24.18	2.46*
120.1	120.7	30.99	7.67	24.20	1.45*
130.3	130.9	31.00	7.73	24.20	.73*
140.2	140.9	31.01	7.73	24.21	1.78*
150.2	150.9	31.02	7.73	24.22	1.10*
160.3	161.0	31.02	7.73	24.22	.51*
170.0	170.8	31.02	7.75	24.22	1.56*
180.2	181.0	31.04	7.78	24.23	1.40*
190.1	191.0	31.05	7.78	24.23	1.61*
200.2	201.2	31.06	7.81	24.24	1.27*
210.1	211.1	31.07	7.84	24.25	1.03*
220.2	221.3	31.08	7.85	24.25	1.70*
230.1	231.2	31.10	7.85	24.26	1.48*
240.0	241.2	31.09	7.85	24.26	1.09*
250.1	251.3	31.10	7.86	24.26	1.46
260.3	261.5	31.11	7.86	24.27	1.62*
270.1	271.4	31.11	7.86	24.27	1.36*
280.3	281.6	31.11	7.85	24.27	1.11*
290.3	291.7	31.12	7.85	24.28	1.49*
300.2	301.6	31.13	7.85	24.29	.90*
310.2	311.7	31.13	7.84	24.29	1.37*
320.1	321.6	31.13	7.84	24.29	1.19*
330.1	331.7	31.14	7.81	24.30	1.29*
340.1	341.7	31.13	7.74	24.31	1.96*

MAX DEPTH 359.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 5 KNIGHT INLET 1977  
 LAT N50 41.60  
 DATE 29/ 6/77  
 TIME (PST) 1326

TAPE CZ0/78/ 9- 42  
 LONG W125 49.30  
 PASS NO. 18  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	11.38	13.00	8.24	79.71
2.1	2.1	11.42	13.06	8.27	70.57
5.1	5.1	15.05	11.99	11.22	61.94
10.0	10.0	26.63	9.43	20.55	35.65
15.1	15.1	28.76	8.72	22.31	23.22
20.0	20.1	29.93	8.16	23.31	18.21
25.1	25.2	30.13	8.01	23.49	4.71
30.1	30.2	30.19	7.99	23.54	7.70
35.1	35.2	30.34	7.93	23.66	5.65
40.2	40.4	30.56	7.83	23.84	7.46
45.0	45.2	30.61	7.75	23.90	9.13
50.4	50.6	30.70	7.59	23.99	7.54
60.1	60.4	30.80	7.50	24.08	4.89*
70.0	70.3	30.85	7.60	24.10	2.54*
80.2	80.6	30.87	7.62	24.12	2.59*
90.2	90.6	30.92	7.64	24.15	2.74*
100.0	100.5	30.96	7.68	24.18	2.20*
110.0	110.6	30.98	7.71	24.19	1.73*
120.5	121.0	30.99	7.71	24.19	1.55*
130.0	130.6	31.00	7.73	24.21	1.80*
140.0	140.7	31.02	7.78	24.21	.57*
150.2	150.9	31.04	7.79	24.22	1.24*
160.1	160.9	31.05	7.80	24.23	1.68*
170.4	171.2	31.07	7.82	24.24	1.59*
180.2	181.1	31.07	7.83	24.24	1.73*
190.2	191.1	31.07	7.85	24.24	+
200.1	201.1	31.09	7.86	24.26	+
210.3	211.3	31.09	7.87	24.26	2.65
220.3	221.3	31.10	7.87	24.26	1.27*
230.1	231.2	31.11	7.87	24.27	.97*
240.3	241.5	31.11	7.86	24.27	.94*
250.1	251.3	31.11	7.86	24.27	+
260.4	261.6	31.11	7.87	24.27	.45*
270.3	271.6	31.11	7.86	24.27	.81*
280.2	281.5	31.11	7.86	24.27	.38*
290.2	291.6	31.12	7.85	24.28	.85*
300.2	301.6	31.11	7.86	24.27	.47*
310.0	311.5	31.13	7.87	24.28	1.43*
320.0	321.6	31.14	7.88	24.29	1.16*
330.1	331.7	31.14	7.89	24.29	+

MAX DEPTH 332.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 5 KNIGHT INLET 1977  
 LAT N50 41.10  
 DATE 29/ 6/77  
 TIME (PST) 1353

TAPE CZ0/78/ 9- 43  
 LONG W125 51.90  
 PASS NO. 20  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	11.76	12.88	8.56	110.14
2.2	2.1	11.71	12.89	8.52	27.51*
5.2	5.1	10.06	11.84	12.03	69.10
10.0	10.0	28.60	8.83	22.17	28.18
15.2	15.2	29.29	8.53	22.76	24.14
20.1	20.2	29.99	8.23	23.35	9.51
25.0	25.1	30.23	8.03	23.56	7.50
30.3	30.4	30.30	8.00	23.62	5.42
35.1	35.3	30.42	7.91	23.73	11.04*
40.1	40.3	30.52	7.83	23.81	7.60
45.2	45.4	30.66	7.76	23.93	7.49
50.2	50.5	30.71	7.75	23.97	5.53
60.2	60.5	30.75	7.63	24.02	5.94
70.4	70.7	30.79	7.64	24.05	2.80*
80.5	80.9	30.83	7.63	24.08	3.37*
90.2	90.6	30.86	7.55	24.12	2.84*
100.3	100.8	30.89	7.57	24.14	2.49*
110.2	110.7	30.92	7.63	24.15	2.13*
120.3	120.9	30.93	7.62	24.17	1.91*
130.1	130.7	30.96	7.68	24.18	2.09*
140.2	140.8	30.98	7.72	24.19	1.87*
150.3	151.1	31.01	7.76	24.21	2.39*
160.1	160.8	31.02	7.77	24.21	+
170.2	171.0	31.04	7.76	24.23	1.62*
180.2	181.0	31.05	7.82	24.23	2.74
190.3	190.9	31.05	7.83	24.23	1.31*
200.2	201.2	31.07	7.86	24.24	.42*
210.3	211.3	31.07	7.86	24.24	1.56*
220.2	221.2	31.09	7.87	24.25	1.14*
230.2	231.3	31.09	7.88	24.25	1.20*
240.0	241.2	31.11	7.88	24.26	1.07*
250.1	251.3	31.10	7.89	24.26	1.41*
260.0	261.3	31.12	7.88	24.28	1.97*
270.1	271.4	31.13	7.89	24.28	+
280.1	281.4	31.13	7.89	24.29	+
290.2	291.6	31.13	7.89	24.28	2.06*
300.1	301.6	31.14	7.89	24.29	1.24*
310.0	311.5	31.15	7.89	24.30	1.48*
320.1	321.7	31.16	7.90	24.31	1.16*

MAX DEPTH 325.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 5 KNIGHT INLET 1977

LAT N50 40.70

DATE 29/ 6/77

TIME (PST) 1426

TAPE CZ0/78/ 9- 44

LONG W125 54.40

PASS NO. 22

STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	15.57	12.83	11.50	+
2.1	2.1	15.69	12.81	11.59	31.08
5.1	5.1	22.52	10.28	17.24	85.85
10.1	10.2	28.30	8.77	21.95	40.83
15.1	15.1	29.37	8.41	22.83	14.02
20.1	20.2	29.82	8.27	23.21	12.41
25.3	25.4	29.98	8.23	23.34	11.42
30.4	30.5	30.43	8.07	23.71	8.89
35.3	35.4	30.60	8.00	23.85	7.50
40.2	40.4	30.69	7.97	23.92	5.75
45.0	45.3	30.72	7.89	23.96	4.92
50.4	50.6	30.75	7.90	23.98	2.86*
60.1	60.4	30.83	7.91	24.04	5.28*
70.2	70.5	30.83	7.63	24.08	6.91
80.1	80.5	30.87	7.64	24.12	2.59*
90.0	90.4	30.90	7.64	24.14	2.64*
100.3	100.8	30.94	7.65	24.17	2.73*
110.1	110.6	30.96	7.70	24.18	2.23*
120.2	120.8	31.02	7.89	24.20	1.63*
130.0	130.6	31.03	7.89	24.20	1.09*
140.1	140.8	31.04	7.88	24.22	.69*
150.3	151.0	31.04	7.89	24.21	.93*
160.0	160.8	31.06	7.88	24.23	1.93*
170.1	170.9	31.07	7.88	24.24	2.08*
180.2	181.1	31.10	7.88	24.26	2.39*
190.0	190.9	31.11	7.89	24.27	1.44*
200.1	201.1	31.12	7.88	24.28	1.68*
210.1	211.1	31.13	7.89	24.28	.53*
220.1	221.2	31.13	7.89	24.28	.67*
230.2	231.3	31.13	7.89	24.28	.87*
240.1	241.3	31.12	7.89	24.28	+
250.2	251.5	31.12	7.89	24.28	+
260.2	261.5	31.13	7.89	24.28	2.00*
270.2	271.5	31.15	7.89	24.30	1.89*
280.3	281.6	31.16	7.90	24.30	1.13
290.2	291.6	31.15	7.89	24.30	+
300.3	301.7	31.15	7.89	24.29	+
310.3	311.8	31.14	7.89	24.29	1.39*
320.0	321.6	31.15	7.90	24.29	.09*
330.2	331.8	31.15	7.89	24.30	.99*
340.2	341.8	31.15	7.90	24.30	.65*
360.2	361.9	31.15	7.90	24.30	3.65

MAX DEPTH 368.2



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 5 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 29/ 6/77  
 TIME (PST) 1504

TAPE CZ0/78/ 9- 45  
 LONG W125 57.20  
 PASS NO. 24  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	1.31	12.56	.54	68.74
2.1	2.1	17.17	12.30	12.81	56.27
5.3	5.3	19.68	11.85	14.81	52.28
10.1	10.1	29.03	8.52	22.56	18.54
15.1	15.1	29.61	8.34	23.03	30.54
20.3	20.4	30.36	8.05	23.66	15.15
25.1	25.2	30.59	7.97	23.85	11.14*
30.2	30.4	30.74	7.93	23.98	7.05*
35.0	35.2	30.76	7.90	23.99	6.29*
40.3	40.5	30.73	7.86	23.97	5.35*
45.0	45.2	30.85	7.90	24.06	3.47*
50.1	50.4	30.85	7.90	24.06	1.98*
60.2	60.5	30.88	7.89	24.09	4.14
70.2	70.5	30.94	7.89	24.13	1.56*
80.3	80.7	30.94	7.89	24.14	1.63*
90.3	90.7	30.97	7.88	24.16	2.00*
100.1	100.5	30.98	7.88	24.16	2.70*
110.1	110.6	31.01	7.89	24.19	2.10*
120.5	121.0	31.03	7.88	24.20	.91*
130.2	130.9	31.02	7.88	24.20	1.69*
140.1	140.8	31.05	7.88	24.22	2.73*
150.3	151.0	31.06	7.88	24.23	1.74*
160.2	161.0	31.08	7.88	24.25	2.15*
170.1	170.9	31.09	7.88	24.25	1.80*
180.1	180.9	31.11	7.88	24.27	1.48*
190.4	191.3	31.11	7.88	24.26	1.17*
200.1	201.1	31.11	7.88	24.27	1.28*
210.1	211.1	31.12	7.89	24.28	2.08*
220.0	221.1	31.13	7.89	24.28	1.30*
230.2	231.3	31.14	7.89	24.29	1.94*
240.2	241.3	31.15	7.89	24.30	1.48*
250.1	251.4	31.15	7.89	24.30	+
260.0	261.3	31.15	7.89	24.30	.87*
270.4	271.7	31.14	7.89	24.29	+
280.4	281.7	31.15	7.89	24.30	.47*
290.3	291.7	31.14	7.89	24.29	+
300.2	301.6	31.15	7.89	24.30	+
310.2	311.6	31.15	7.89	24.30	+

MAX DEPTH 315.5

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 5 KNIGHT INLET 1977

LAT N50 40.60

DATE 29/ 6/77

TIME (PST) 1528

TAPE CZ0/78/ 9- 46

LONG W125 59.50

PASS NO. 26

STN: 15 - HEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	18.29	12.66	13.61	118.97
2.1	2.1	18.09	12.68	13.45	65.37
5.2	5.1	19.73	12.20	14.79	36.67
10.1	10.1	29.27	8.45	22.75	43.47
15.2	15.3	30.52	8.01	23.79	22.43
20.2	20.2	30.78	7.80	24.02	9.04
25.1	25.2	30.86	7.67	24.10	11.91
30.1	30.3	30.89	7.67	24.13	5.90*
35.3	35.5	30.93	7.64	24.16	3.62*
40.2	40.4	30.95	7.69	24.17	2.37*
45.1	45.3	30.95	7.70	24.17	5.03
50.3	50.6	30.98	7.73	24.18	3.91*
60.2	60.5	30.99	7.73	24.19	5.02
70.0	70.3	31.04	7.84	24.22	2.74*

MAX DEPTH 74.5

CRUISE NO. 5 KNIGHT INLET 1977

LAT N50 39.90

DATE 29/ 6/77

TIME (PST) 1622

TAPE CZ0/78/ 9- 47

LONG W126 4.20

PASS NO. 28

STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	20.70	12.13	15.55	9.96
2.0	2.0	21.18	12.01	15.95	19.64
5.2	5.2	22.12	11.65	16.72	37.67
10.0	10.0	27.56	9.42	21.28	15.21
15.0	15.1	29.58	8.72	22.96	25.58
20.2	20.3	29.93	8.44	23.27	11.64
25.1	25.2	30.32	8.12	23.62	5.56
30.0	30.2	30.69	7.96	23.93	12.37
35.0	35.2	30.86	7.91	24.07	5.87
40.0	40.2	30.89	7.88	24.10	4.52*
45.0	45.2	30.94	7.85	24.14	3.79*
50.3	50.5	30.98	7.84	24.17	3.06*
60.2	60.5	31.03	7.85	24.21	4.39*
70.3	70.6	31.08	7.88	24.24	5.81*
80.4	80.8	31.30	8.04	24.39	7.38
90.0	90.5	31.37	8.00	24.46	4.30*
100.2	100.7	31.42	7.97	24.50	3.55*
110.2	110.7	31.44	7.91	24.52	3.08*
120.3	120.9	31.50	7.91	24.57	3.51*
130.3	131.0	31.54	7.90	24.60	3.58
140.1	140.8	31.55	7.94	24.60	2.44*
150.1	150.9	31.56	7.95	24.61	1.28*
160.4	161.3	31.56	7.95	24.61	+

MAX DEPTH 166.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 5 KNIGHT INLETT 1977

LAT N50 39.20

DATE 29/ 6/77

TIME (PST) 1709

TAPE CZ0/78/ 9- 48

LONG W126 12.50

PASS NO. 30

STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	21.22	11.96	15.98	18.29
2.1	2.1	21.40	11.87	16.13	32.39
5.1	5.1	26.21	10.01	20.14	80.70
10.1	10.2	30.14	8.31	23.45	17.84
15.3	15.4	30.47	8.11	23.73	12.43
20.0	20.1	30.65	8.01	23.89	8.89
25.1	25.3	30.82	7.93	24.04	7.24
30.0	30.2	30.91	7.89	24.11	6.15
35.3	35.4	30.99	7.91	24.17	6.43*
40.0	40.2	31.07	8.02	24.22	5.63*
45.2	45.4	31.14	8.06	24.27	5.24*
50.2	50.4	31.18	8.04	24.30	5.18
60.0	60.3	31.28	8.03	24.38	5.87*
70.2	70.5	31.34	8.04	24.43	2.64*
80.3	80.7	31.37	8.02	24.45	5.10*
90.2	90.6	31.49	7.96	24.55	4.42*
100.1	100.7	31.53	7.96	24.58	3.47*
110.1	110.7	31.57	7.97	24.62	3.86
120.2	120.8	31.59	7.98	24.63	1.84*
130.1	130.8	31.60	7.98	24.64	1.69*
140.2	140.9	31.61	7.98	24.64	1.27*
150.1	150.9	31.61	7.98	24.65	1.17*
160.2	161.0	31.63	7.98	24.66	2.70*
170.1	171.0	31.66	7.98	24.68	4.15*
180.1	181.1	31.67	7.97	24.70	+

MAX DEPTH 181.6

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 5 KNIGHT INLET 1977

LAT N50 38.50

DATE 29/ 6/77

TIME (PS1) 1749

TAPE CZ0/78/ 9- 49

LONG W120 17.30

PASS NO. 32

STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	1.76	11.42	1.02	101.18
2.0	2.0	23.55	11.41	17.86	82.89
5.1	5.1	26.72	9.12	22.23	29.85
10.2	10.2	29.78	8.80	23.09	15.38
15.3	15.4	30.13	8.60	23.40	6.48
20.2	20.3	30.41	8.51	23.63	10.59
25.1	25.2	30.62	8.12	23.85	9.88
30.1	30.2	30.66	8.28	23.86	4.90*
35.3	35.4	30.72	8.35	23.90	4.70*
40.2	40.4	30.80	8.30	23.97	5.81*
45.3	45.5	30.84	8.29	24.00	5.90*
50.2	50.4	30.86	8.29	24.01	5.73*
60.3	60.6	30.93	8.10	24.10	6.47*
70.1	70.4	31.10	8.11	24.23	6.01
80.2	80.6	31.23	8.15	24.33	6.40
90.1	90.5	31.35	8.06	24.43	4.94*
100.0	100.5	31.38	8.04	24.46	3.30*
110.3	110.8	31.42	8.02	24.49	2.52*
120.1	120.7	31.44	8.02	24.50	5.57*
130.2	130.9	31.47	8.00	24.54	2.66*
140.2	140.9	31.50	7.99	24.56	2.98*
150.0	150.8	31.56	7.99	24.61	4.94*
160.2	161.0	31.70	7.97	24.72	5.23*
170.2	171.1	31.69	7.97	24.71	+
180.1	181.0	31.71	7.96	24.72	.94*
190.2	191.2	31.70	7.97	24.72	.75*
200.1	201.2	31.70	7.97	24.72	1.90*
210.1	211.2	31.73	7.96	24.74	1.83*
220.0	221.2	31.73	7.96	24.74	.40*
230.1	231.3	31.73	7.96	24.74	.35*

MAX DEPTH 237.7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 5 KNIGHT INLET 1977  
 LAT N50 38.10  
 DATE 29/ 6/77  
 TIME (PST) 1845

TAPE CZ0/78/ 9- 50  
 LONG W126 25.20  
 PASS NO. 34  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	25.69	11.48	19.50	+
2.1	2.1	25.98	11.44	19.74	21.69
5.0	5.0	26.70	9.63	22.14	30.14
10.1	10.1	30.03	8.92	23.27	13.38
15.1	15.2	30.34	8.75	23.54	21.18
20.0	20.1	30.72	8.54	23.87	11.23
25.0	25.2	30.89	8.45	24.02	9.33
30.2	30.3	30.99	8.38	24.10	5.63*
35.3	35.4	31.01	8.36	24.12	4.50*
40.2	40.4	31.05	8.34	24.15	4.53*
45.3	45.6	31.09	8.31	24.19	4.62*
50.4	50.6	31.12	8.29	24.22	4.96*
60.2	60.5	31.22	8.21	24.31	4.36
70.2	70.5	31.24	8.20	24.32	6.15
80.0	80.4	31.40	8.04	24.47	8.16
90.3	90.7	31.43	8.03	24.50	2.55*
100.3	100.8	31.50	8.01	24.55	4.47
110.1	110.6	31.52	8.01	24.57	2.39*
120.4	121.0	31.53	8.00	24.58	1.76*
130.3	130.9	31.56	7.99	24.61	3.79*
140.4	141.1	31.58	7.98	24.62	2.93*
150.3	151.1	31.61	7.98	24.65	+
160.3	161.1	31.63	7.98	24.66	1.89*
170.3	171.1	31.64	7.98	24.67	1.50*
180.4	181.3	31.65	7.98	24.68	1.84*
190.4	191.4	31.66	7.98	24.68	.92*
200.2	201.2	31.65	7.98	24.68	1.76*
210.0	211.1	31.66	7.98	24.69	.96*
220.1	221.3	31.66	7.98	24.69	+
230.0	231.2	31.67	7.98	24.69	.87*
240.2	241.4	31.66	7.99	24.68	+
250.2	251.5	31.70	7.98	24.72	+

MAX DEPTH 252.5

CRUISE NO. 6



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 6 KNIGHT INLET 1977  
 LAT N51 2.30  
 DATE 13/ 8/77  
 TIME (PST) 0850

TAPE CZ0/78/ 2- 74  
 LONG W125 33.80  
 PASS NO. 25  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.00	11.10	-.31	15.27
2.1	2.1	.18	8.93	.02	20.82
5.3	5.2	.41	6.45	.34	26.27
10.2	10.0	.00	8.95	-.12	82.00*
15.2	15.2	29.60	7.84	23.09	44.89
20.1	20.2	30.02	7.57	23.46	11.99
25.3	25.4	30.27	7.49	23.67	8.26
30.2	30.3	30.42	7.46	23.79	8.83
35.4	35.5	30.57	7.45	23.91	6.09
40.2	40.4	30.63	7.44	23.95	5.26
45.1	45.3	30.67	7.42	23.99	4.46
50.3	50.5	30.74	7.37	24.05	5.93
60.2	60.5	30.80	7.31	24.10	4.46*
70.2	70.6	30.86	7.29	24.15	4.04*
80.0	80.4	30.89	7.29	24.17	2.40*
90.2	90.6	30.92	7.28	24.20	2.08*
100.1	100.5	30.93	7.28	24.21	2.02*
110.2	110.7	30.95	7.27	24.23	1.89*
120.0	120.6	30.96	7.27	24.24	2.11*
130.1	130.8	30.99	7.28	24.26	2.14*
140.1	140.8	31.01	7.31	24.27	1.46*
150.1	150.9	31.02	7.32	24.27	1.25*
160.3	161.0	31.02	7.32	24.27	.96*
170.0	170.9	31.02	7.33	24.28	+
180.3	181.2	31.02	7.33	24.27	

MAX DEPTH 187.0



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 6 KNIGHT INLET 1977  
 LAT N50 58.90  
 DATE 13/ 8/77  
 TIME (PST) 0923

TAPE CZ0/78/ 2- 75  
 LONG W125 33.20  
 PASS NO. 27  
 STN: 2 - Kn10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	53.25	.11	42.93	81.62
2.0	2.0	.00	8.45	-.09	7.26
5.0	5.0	.00	8.26	-.07	63.08
10.3	10.3	27.12	9.08	20.99	+
15.1	15.2	29.52	8.01	23.01	23.87
20.1	20.2	30.03	7.57	23.47	12.79
25.2	25.3	30.27	7.48	23.66	10.04
30.2	30.3	30.40	7.47	23.77	6.63
35.1	35.2	30.55	7.45	23.89	6.30
40.2	40.4	30.65	7.43	23.97	5.13
45.0	45.2	30.71	7.39	24.02	5.34
50.3	50.5	30.76	7.35	24.06	5.11*
60.1	60.4	30.80	7.31	24.11	3.71*
70.2	70.5	30.86	7.29	24.15	3.51*
80.1	80.4	30.90	7.28	24.19	3.00*
90.1	90.5	30.93	7.27	24.21	2.33*
100.3	100.7	30.94	7.27	24.22	2.09*
110.3	110.8	30.97	7.27	24.24	2.05*
120.1	120.7	30.97	7.27	24.24	1.85*
130.2	130.8	30.99	7.30	24.26	1.68*
140.1	140.7	31.00	7.29	24.26	1.44*
150.1	150.8	31.00	7.30	24.26	.96*
160.2	160.9	31.03	7.38	24.27	.86*
170.1	170.9	31.04	7.42	24.27	1.37*
180.1	181.0	31.04	7.40	24.28	1.13*
190.2	191.1	31.03	7.39	24.27	1.04*
200.2	201.2	31.05	7.38	24.29	1.43*
210.2	211.2	31.06	7.45	24.29	1.15*
220.1	221.2	31.06	7.42	24.30	.95*
230.1	231.2	31.06	7.38	24.30	1.17*
240.1	241.2	31.06	7.35	24.30	1.28*
250.2	251.5	31.07	7.36	24.31	1.31*
260.0	261.3	31.08	7.43	24.31	+
270.1	271.4	31.10	7.46	24.32	1.37*
280.2	281.6	31.10	7.43	24.32	1.20*
290.2	291.6	31.10	7.42	24.32	1.01*
300.3	301.7	31.11	7.44	24.33	1.19*
310.2	311.7	31.11	7.39	24.33	1.25*
320.2	321.8	31.10	7.36	24.33	

MAX DEPTH 320.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 6 KNIGHT INLET 1977  
 LAT N50 54.30  
 DATE 13/ 8/77  
 TIME (PST) 1022

TAPE CZ0/78/ 2- 76  
 LONG W125 32.80  
 PASS NO. 30  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.21	11.36	-.18	11.72
2.3	2.3	.18	9.27	-.01	17.39
5.1	5.0	.60	8.50	.38	29.09
10.0	10.0	28.24	8.90	21.88	36.99
15.3	15.3	29.61	7.94	23.09	26.56
20.2	20.3	30.11	7.58	23.53	11.50
25.1	25.2	30.32	7.49	23.70	10.08
30.0	30.2	30.46	7.47	23.82	5.22
35.3	35.4	30.61	7.46	23.93	7.11
40.1	40.3	30.64	7.44	23.96	4.37
45.1	45.3	30.69	7.42	24.00	5.15
50.2	50.5	30.73	7.38	24.04	5.27
60.3	60.6	30.80	7.32	24.10	4.27
70.0	70.4	30.87	7.31	24.16	3.87*
80.2	80.5	30.90	7.30	24.18	2.36*
90.1	90.5	30.92	7.30	24.20	2.40*
100.1	100.6	30.93	7.28	24.21	2.62*
110.3	110.8	30.96	7.32	24.23	2.06*
120.1	120.7	30.97	7.3	24.24	1.64*
130.1	130.8	30.98	7.33	24.25	1.54*
140.2	140.9	31.00	7.38	24.25	1.49*
150.0	150.8	31.02	7.43	24.26	1.48*
160.3	161.0	31.05	7.53	24.27	1.31*
170.1	170.9	31.05	7.56	24.27	1.17*
180.1	181.0	31.07	7.57	24.28	1.49*
190.1	191.0	31.07	7.58	24.28	1.93*
200.0	201.0	31.08	7.58	24.29	1.36*
210.0	211.1	31.09	7.57	24.30	1.68*
220.0	221.1	31.09	7.58	24.29	1.53*
230.2	231.3	31.10	7.59	24.30	1.39*
240.1	241.3	31.10	7.58	24.30	1.20*
250.1	251.3	31.11	7.59	24.31	1.21*
260.2	261.4	31.13	7.65	24.31	1.38*
270.2	271.5	31.14	7.67	24.32	1.16*
280.2	281.5	31.13	7.66	24.32	1.23*
290.2	291.7	31.14	7.65	24.32	1.09*
300.1	301.6	31.13	7.61	24.33	.68*
310.2	311.7	31.13	7.57	24.33	.55*
320.2	321.7	31.14	7.56	24.33	1.20*
330.2	331.8	31.14	7.56	24.34	6.17*
340.2	341.9	31.15	7.56	24.35	1.35*
360.1	361.8	31.15	7.46	24.36	.84*
380.0	381.9	31.13	7.29	24.36	1.17*

MAX DEPTH 394.5

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 6 KNIGHT INLET 1977

LAT N50 52.40

DATE 13/ 8/77

TIME (PST) 1112

TAPE CZ0/78/ 2- 77

LONG W125 38.50

PASS NO. 32

STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.47	11.12	.05	19.71
2.1	2.1	.57	10.50	.19	9.95
5.2	5.1	.64	10.24	.26	32.53
10.3	10.3	28.13	8.94	21.79	39.42
15.0	15.1	29.60	7.99	23.07	19.11
20.3	20.3	29.98	7.71	23.40	13.69
25.2	25.3	30.31	7.51	23.69	10.80
30.2	30.3	30.43	7.55	23.78	9.40
35.0	35.2	30.51	7.49	23.85	6.81
40.1	40.2	30.57	7.47	23.90	5.24
45.0	45.2	30.64	7.45	23.96	5.59
50.1	50.3	30.69	7.42	24.00	5.34
60.1	60.4	30.78	7.35	24.08	4.74*
70.2	70.5	30.84	7.33	24.13	3.75*
80.1	80.5	30.89	7.35	24.17	3.07*
90.0	90.5	30.92	7.35	24.19	2.55*
100.2	100.7	30.94	7.34	24.21	2.58*
110.1	110.6	30.97	7.40	24.23	2.89*
120.1	120.7	31.00	7.42	24.24	2.01*
130.2	130.8	31.01	7.50	24.24	1.90*
140.2	140.8	31.04	7.52	24.26	1.27*
150.2	150.9	31.06	7.61	24.26	1.37*
160.0	160.8	31.06	7.57	24.27	1.45*
170.0	170.8	31.06	7.60	24.27	1.57*
180.0	180.9	31.08	7.62	24.28	1.33*
190.2	191.1	31.08	7.60	24.28	1.25*
200.2	201.1	31.09	7.63	24.28	1.38*
210.2	211.2	31.10	7.67	24.29	1.37*
220.2	221.3	31.11	7.68	24.30	1.27*
230.1	231.2	31.12	7.69	24.30	1.39*
240.2	241.4	31.14	7.77	24.31	1.57*
250.1	251.3	31.15	7.81	24.31	1.39*
260.2	261.5	31.16	7.81	24.31	1.27*
270.1	271.4	31.16	7.82	24.32	1.08*
280.1	281.5	31.16	7.81	24.32	1.54*
290.1	291.5	31.17	7.80	24.33	1.48*
300.3	301.7	31.18	7.78	24.33	1.18*
310.2	311.7	31.18	7.82	24.34	1.26*
320.1	321.6	31.18	7.78	24.33	+
330.2	331.8	31.19	7.81	24.34	+
340.2	341.9	31.19	7.79	24.34	.97*
360.1	361.9	31.18	7.71	24.35	+

MAX DEPTH 363.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 6 KNIGHT INLET 1977  
 LAT N50 47.90  
 DATE 13/ 8/77  
 TIME (PST) 1157

TAPE CZ0/78/ 2- 78  
 LONG W125 37.00  
 PASS NO. 34  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	1.21	12.84	.42	14.62
2.0	2.0	1.34	12.52	.56	12.52
5.2	5.1	1.57	12.80	.70	21.00
10.0	10.0	27.69	8.99	21.44	70.86*
15.3	15.3	29.62	8.03	23.09	38.73
20.2	20.3	30.10	7.73	23.50	13.51
25.3	25.4	30.28	7.56	23.66	8.67
30.3	30.4	30.48	7.54	23.82	9.66
35.0	35.2	30.57	7.48	23.90	6.36
40.2	40.4	30.65	7.46	23.97	5.74
45.0	45.2	30.72	7.42	24.02	4.18
50.1	50.3	30.74	7.39	24.05	3.74*
60.2	60.5	30.81	7.37	24.10	4.02*
70.1	70.4	30.85	7.37	24.14	4.17*
80.3	80.6	30.89	7.34	24.17	3.11*
90.1	90.5	30.94	7.36	24.21	2.48*
100.2	100.7	30.97	7.43	24.22	4.28
110.0	110.6	31.01	7.52	24.24	2.02*
120.0	120.6	31.02	7.54	24.25	1.48*
130.1	130.8	31.04	7.60	24.26	1.17*
140.1	140.8	31.05	7.62	24.26	1.23*
150.0	150.7	31.07	7.67	24.26	+
160.2	161.0	31.08	7.71	24.27	1.25*
170.1	170.9	31.09	7.73	24.27	.93*
180.2	181.1	31.09	7.74	24.27	1.56*
190.1	191.0	31.11	7.77	24.28	1.33*
200.3	201.3	31.12	7.83	24.29	.93*
210.1	211.1	31.13	7.81	24.29	1.27*
220.0	221.1	31.14	7.84	24.30	1.24*
230.1	231.2	31.15	7.85	24.30	1.20*
240.1	241.3	31.14	7.85	24.30	1.09*
250.2	251.4	31.16	7.85	24.31	1.14*
260.1	261.4	31.16	7.85	24.31	+
270.0	271.3	31.16	7.85	24.31	1.20*
280.2	281.6	31.17	7.84	24.32	1.38*
290.2	291.6	31.18	7.83	24.33	1.49*
300.0	301.5	31.18	7.84	24.33	1.58*
310.3	311.8	31.19	7.84	24.34	1.15*
320.0	321.6	31.19	7.83	24.34	1.20*
330.2	331.8	31.18	7.80	24.34	1.01*
340.1	341.8	31.20	7.80	24.35	1.26*
360.2	362.0	31.19	7.76	24.35	.60*
380.0	381.9	31.20	7.74	24.35	.99*
400.3	402.2	31.18	7.63	24.36	.73*
420.3	422.3	31.17	7.48	24.37	1.45*
440.2	442.3	31.16	7.39	24.37	.77*
460.1	462.4	31.15	7.35	24.37	.77*
480.3	482.6	31.15	7.33	24.38	

MAX DEPTH 488.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 6 KNIGHT INLET 1977  
 LAT N50 45.10  
 DATE 13/ 8/77  
 TIME (PST) 1239

TAPE CZ0/78/ 2- 79  
 LONG W125 41.00  
 PASS NO. 36  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	1.43	13.84	.46	16.37
2.1	2.0	1.54	13.12	.64	15.96
5.1	5.0	1.74	12.55	.87	22.51
10.1	10.1	28.05	8.86	21.74	41.80
15.1	15.2	29.58	8.12	23.04	20.59
20.1	20.2	30.19	7.76	23.57	10.17
25.1	25.2	30.31	7.64	23.68	6.87
30.0	30.1	30.44	7.61	23.78	8.78
35.2	35.3	30.57	7.57	23.89	5.20
40.0	40.2	30.63	7.51	23.94	5.95*
45.1	45.3	30.69	7.45	24.00	5.40*
50.2	50.4	30.71	7.43	24.01	4.73*
60.1	60.4	30.79	7.36	24.09	5.52*
70.1	70.4	30.86	7.47	24.13	3.37*
80.1	80.5	30.89	7.43	24.16	5.53
90.0	90.5	30.95	7.43	24.20	2.75*
100.1	100.6	30.96	7.42	24.21	3.83
110.2	110.8	31.00	7.49	24.24	1.62*
120.3	120.8	31.03	7.55	24.25	1.90*
130.1	130.7	31.04	7.61	24.25	+
140.2	140.8	31.05	7.61	24.26	1.29*
150.2	150.9	31.06	7.65	24.26	1.58*
160.3	161.0	31.08	7.70	24.27	1.35*
170.1	170.9	31.09	7.74	24.27	1.44*
180.2	181.1	31.10	7.76	24.28	1.45*
190.0	191.0	31.13	7.82	24.29	1.79*
200.0	201.0	31.13	7.84	24.29	1.20*
210.1	211.1	31.14	7.85	24.30	1.38*
220.1	221.2	31.15	7.86	24.30	1.11*
230.0	231.1	31.15	7.86	24.30	.93*
240.2	241.4	31.15	7.87	24.30	.94*
250.2	251.4	31.16	7.87	24.31	1.24*
260.0	261.3	31.17	7.87	24.31	.77*
270.2	271.5	31.17	7.87	24.32	1.40*
280.2	281.5	31.18	7.86	24.32	1.26*
290.2	291.7	31.18	7.86	24.33	1.64*
300.2	301.7	31.19	7.85	24.33	+
310.2	311.8	31.19	7.85	24.34	1.23*
320.2	321.8	31.19	7.85	24.34	.91*
330.1	331.7	31.20	7.85	24.34	1.07*
340.1	341.8	31.19	7.85	24.34	.63*
360.3	362.0	31.20	7.80	24.35	1.26*
380.1	381.9	31.20	7.76	24.36	1.13*
400.1	402.0	31.19	7.64	24.36	1.17*
420.3	422.3	31.18	7.56	24.37	1.36*
440.2	442.3	31.17	7.40	24.38	1.35*
460.1	462.3	31.16	7.38	24.38	.66*
480.0	482.4	31.16	7.33	24.38	1.03*

MAX DEPTH 494.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 6 KNIGHT INLET 1977  
 LAT N50 41.90  
 DATE 13/ 8/77  
 TIME (PST) 1325

TAPE CZ0/78/ 2- 80  
 LONG W125 43.50  
 PASS NO. 39  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	1.43	14.31	.39	13.62
2.1	2.0	1.63	13.04	.72	30.21
5.1	5.0	5.60	12.25	3.90	55.72
10.1	10.1	28.78	8.49	22.37	34.98
15.1	15.1	29.83	8.02	23.24	18.42
20.1	20.2	30.12	7.85	23.50	8.82
25.2	25.3	30.42	7.74	23.75	11.52
30.0	30.2	30.51	7.66	23.83	8.03
35.1	35.3	30.61	7.58	23.92	7.52*
40.1	40.3	30.66	7.56	23.96	5.63
45.1	45.3	30.72	7.52	24.01	4.86*
50.1	50.3	30.75	7.50	24.04	4.25*
60.3	60.5	30.81	7.48	24.09	2.95*
70.2	70.5	30.87	7.47	24.14	3.24*
80.2	80.6	30.89	7.46	24.16	2.23*
90.1	90.5	30.91	7.44	24.17	2.70*
100.2	100.7	30.95	7.4..	24.20	3.50*
110.3	110.8	30.99	7.51	24.23	2.13*
120.3	120.8	31.02	7.57	24.24	2.35
130.2	130.8	31.05	7.63	24.25	2.19*
140.2	140.8	31.07	7.68	24.26	1.13*
150.2	151.0	31.08	7.71	24.27	1.23*
160.2	160.9	31.08	7.74	24.27	1.19*
170.3	171.1	31.10	7.78	24.27	1.23*
180.1	181.0	31.11	7.80	24.28	.77*
190.0	190.9	31.13	7.83	24.29	1.72*
200.1	201.1	31.14	7.84	24.29	1.44*
210.2	211.3	31.14	7.84	24.30	1.12*
220.1	221.2	31.14	7.84	24.30	.83*
230.1	231.2	31.14	7.85	24.30	1.88*
240.0	241.2	31.17	7.84	24.32	2.30*
250.0	251.3	31.18	7.84	24.33	.83*
260.3	261.5	31.18	7.85	24.33	.83*
270.2	271.5	31.19	7.85	24.33	1.01*
280.1	281.5	31.19	7.85	24.33	1.58*
290.1	291.6	31.19	7.86	24.34	1.18*
300.1	301.6	31.20	7.86	24.34	.74*

MAX DEPTH 309.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 6 KNIGHT INLET 1977  
 LAT N50 41.70  
 DATE 13/ 8/77  
 TIME (PST) 1351

TAPE CZ0/78/ 2- 81  
 LONG W125 46.60  
 PASS NO. 41  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	1.77	13.91	.71	34.01
2.0	2.0	2.71	14.12	1.40	31.50
5.1	5.0	3.54	13.45	2.14	11.75
10.0	10.1	28.79	8.42	22.38	33.45
15.1	15.1	29.46	8.19	22.93	10.08
20.0	20.1	30.12	7.91	23.49	21.15
25.1	25.2	30.44	7.69	23.77	7.49
30.2	30.4	30.54	7.65	23.85	7.69
35.1	35.2	30.63	7.60	23.93	4.54
40.1	40.3	30.69	7.55	23.99	5.75*
45.1	45.3	30.74	7.56	24.02	4.42*
50.0	50.3	30.77	7.54	24.05	4.23
60.2	60.4	30.85	7.55	24.11	4.25*
70.2	70.5	30.91	7.55	24.16	3.75*
80.2	80.6	30.95	7.55	24.19	2.19*
90.1	90.5	30.96	7.53	24.20	2.20*
100.1	100.5	30.99	7.58	24.21	1.48*
110.3	110.8	30.98	7.51	24.22	1.82*
120.3	120.9	31.01	7.57	24.23	2.72*
130.3	130.9	31.05	7.65	24.25	2.65*
140.2	140.9	31.09	7.76	24.27	2.06*
150.1	150.8	31.12	7.80	24.28	1.50*
160.0	160.8	31.12	7.82	24.29	1.07*
170.1	170.9	31.13	7.82	24.29	1.01*
180.1	181.0	31.13	7.83	24.29	.76*
190.1	191.1	31.13	7.83	24.29	.81*
200.3	201.2	31.13	7.83	24.29	1.22*
210.1	211.1	31.14	7.84	24.30	1.65*
220.1	221.1	31.15	7.84	24.30	1.30*
230.3	231.4	31.16	7.84	24.31	1.33*
240.2	241.4	31.18	7.85	24.32	.91*
250.2	251.4	31.18	7.85	24.33	.75*
260.3	261.5	31.18	7.85	24.33	.56*
270.2	271.5	31.18	7.85	24.33	.47*
280.2	281.6	31.18	7.85	24.33	+
290.2	291.6	31.18	7.86	24.33	+
300.2	301.7	31.18	7.86	24.33	.86*
310.2	311.7	31.19	7.86	24.33	.93*
320.2	321.8	31.19	7.86	24.33	.91*

MAX DEPTH 324.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 6 KNIGHT INLET 1977  
 LAT N50 41.60  
 DATE 13/ 8/77  
 TIME (PST) 1555

TAPE CZ0/78/ 2- 82  
 LONG W125 49.30  
 PASS NO. 71  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	2.39	13.84	1.20	+
2.1	2.1	2.53	13.62	1.34	22.30
5.0	5.0	21.30	10.85	16.22	166.99
10.0	10.1	28.96	8.38	22.52	26.04
15.0	15.1	29.55	8.19	23.00	13.72
20.1	20.2	29.96	8.01	23.35	12.88
25.1	25.2	30.17	7.90	23.53	6.58
30.1	30.2	30.43	7.73	23.75	11.46
35.1	35.2	30.50	7.76	23.81	5.53*
40.0	40.2	30.53	7.74	23.83	4.71
45.1	45.3	30.62	7.73	23.91	11.60
50.0	50.3	30.69	7.70	23.96	4.34
60.0	60.3	30.77	7.67	24.03	4.10
70.1	70.4	30.86	7.60	24.11	5.72
80.1	80.5	30.93	7.58	24.17	2.95*
90.1	90.5	30.95	7.61	24.18	1.81*
100.0	100.5	30.96	7.60	24.19	1.71*
110.2	110.7	30.98	7.51	24.22	3.88*
120.1	120.7	31.01	7.58	24.23	1.62*
130.0	130.6	31.02	7.60	24.24	1.81*
140.0	140.7	31.05	7.68	24.25	1.31*
150.0	150.8	31.06	7.69	24.26	1.12*
160.0	160.8	31.08	7.73	24.27	.78*
170.0	170.9	31.09	7.77	24.27	1.28*
180.0	180.9	31.10	7.80	24.27	2.21*
190.1	191.0	31.12	7.82	24.28	1.07*
200.1	201.0	31.13	7.83	24.29	1.59*
210.1	211.1	31.13	7.83	24.29	1.38*
220.1	221.1	31.14	7.83	24.30	.96*
230.1	231.2	31.14	7.84	24.30	1.74*
240.1	241.3	31.15	7.84	24.30	.77*
250.0	251.3	31.15	7.84	24.30	2.08*
260.1	261.4	31.17	7.85	24.32	2.06*
270.1	271.4	31.19	7.87	24.33	1.77*
280.1	281.4	31.21	7.88	24.35	1.67*
290.0	291.5	31.21	7.88	24.35	

MAX DEPTH 296.6



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 6 KNIGHT INLET 1977  
 LAT N50 41.10  
 DATE 13/ 8/77  
 TIME (PST) 1624

TAPE CZ0/78/ 2- 83  
 LONG W125 51.90  
 PASS NO. 72  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.11	14.79	.84	.82
2.2	2.1	3.28	14.64	1.77	54.40
5.1	5.1	21.89	10.93	16.66	155.60
10.0	10.0	27.89	8.72	21.63	20.10
15.0	15.1	29.27	8.27	22.78	17.66
20.0	20.1	29.98	8.00	23.37	16.16
25.1	25.2	30.16	7.93	23.52	11.16
30.1	30.2	30.43	7.83	23.74	11.86
35.1	35.3	30.54	7.81	23.83	7.81*
40.1	40.3	30.60	7.70	23.90	6.31
45.0	45.2	30.66	7.66	23.94	6.61
50.0	50.3	30.75	7.65	24.02	6.59*
60.2	60.5	30.87	7.73	24.10	4.05*
70.0	70.3	30.92	7.70	24.14	3.10*
80.0	80.4	30.94	7.63	24.17	4.04*
90.0	90.5	30.96	7.60	24.19	2.51*
100.0	100.5	30.98	7.54	24.21	2.56*
110.1	110.6	31.00	7.58	24.23	2.62*
120.0	120.6	31.04	7.65	24.25	2.27*
130.1	130.7	31.08	7.75	24.26	1.75*
140.1	140.8	31.08	7.78	24.26	1.26*
150.1	150.8	31.09	7.78	24.27	1.20*
160.1	160.8	31.10	7.80	24.27	1.36*
170.1	170.9	31.11	7.82	24.28	1.32*
180.0	180.9	31.11	7.83	24.28	1.32*
190.1	191.0	31.12	7.83	24.29	1.31*
200.1	201.1	31.13	7.83	24.29	1.37*
210.0	211.0	31.14	7.82	24.30	1.38*
220.0	221.1	31.15	7.84	24.30	1.08*
230.1	231.2	31.15	7.84	24.30	1.10*
240.1	241.2	31.16	7.84	24.31	1.25*
250.1	251.3	31.15	7.85	24.30	1.28*
260.1	261.3	31.16	7.86	24.31	1.35*
270.1	271.4	31.16	7.86	24.31	1.26*
280.0	281.4	31.17	7.87	24.32	1.27*
290.1	291.5	31.17	7.87	24.32	

MAX DEPTH 298.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 6 KNIGHT INLET 1977  
 LAT N50 40.70  
 DATE 13/ 8/77  
 TIME (PST) 1646

TAPE CZ0/78/ 2- 84  
 LONG W125 54.40  
 PASS NO. 74  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.30	14.38	1.06	+
2.1	2.0	2.31	14.38	1.06	28.59
5.1	5.0	6.44	14.04	4.29	180.96
10.1	10.1	28.09	8.61	21.81	47.34
15.1	15.1	29.65	8.16	23.09	14.93
20.1	20.2	29.91	8.09	23.30	12.20*
25.1	25.2	30.27	7.92	23.61	11.84
30.0	30.1	30.48	7.78	23.79	11.12
35.0	35.2	30.64	7.77	23.91	4.53
40.1	40.3	30.69	7.75	23.96	6.62
45.0	45.2	30.73	7.75	23.99	4.38*
50.0	50.3	30.75	7.73	24.01	3.75*
60.1	60.3	30.82	7.74	24.06	4.78
70.1	70.4	30.89	7.80	24.10	2.98*
80.0	80.4	30.93	7.77	24.15	4.49
90.1	90.5	30.96	7.71	24.17	3.74*
100.1	100.5	30.98	7.65	24.20	2.06*
110.1	110.6	30.98	7.57	24.21	2.37*
120.1	120.7	31.00	7.56	24.23	2.31*
130.1	130.7	31.03	7.65	24.24	1.68*
140.1	140.8	31.07	7.74	24.26	1.99*
150.2	150.9	31.11	7.79	24.28	1.84*
160.0	160.8	31.11	7.83	24.28	1.76*
170.1	170.9	31.14	7.85	24.29	1.75*
180.1	181.0	31.15	7.86	24.30	1.39*
190.1	191.0	31.15	7.85	24.31	2.77*
200.1	201.1	31.18	7.86	24.32	1.09*
210.1	211.1	31.18	7.87	24.33	.92*
220.0	221.1	31.18	7.87	24.32	.94*
230.1	231.3	31.18	7.87	24.33	1.20*
240.1	241.3	31.19	7.88	24.33	1.06*
250.1	251.4	31.20	7.88	24.34	1.99*
260.1	261.3	31.21	7.89	24.34	1.57*
270.0	271.4	31.22	7.89	24.35	1.12*
280.0	281.4	31.22	7.89	24.35	.59*
290.1	291.5	31.22	7.89	24.35	1.85*
300.0	301.5	31.24	7.90	24.37	2.57*
310.0	311.6	31.25	7.90	24.37	1.55*
320.1	321.6	31.25	7.90	24.38	.62*
330.1	331.7	31.26	7.90	24.38	2.74*
340.1	341.8	31.29	7.91	24.40	3.18*
360.1	361.8	31.30	7.91	24.41	.91*

MAX DEPTH 378.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 6 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 13/ 8/77  
 TIME (PST) 1710

TAPE CZ0/78/ 2- 85  
 LONG W125 57.20  
 PASS NO. 76  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.97	14.99	1.48	39.53
2.1	2.0	3.95	14.77	2.27	41.12
5.0	5.0	15.02	12.19	11.17	139.16
10.1	10.1	28.81	8.48	22.39	30.56
15.1	15.2	29.92	8.04	23.31	11.48
20.1	20.2	30.26	7.98	23.59	12.84*
25.0	25.1	30.55	7.92	23.83	7.33
30.1	30.3	30.67	7.91	23.92	7.42
35.1	35.3	30.72	7.90	23.96	5.14*
40.1	40.3	30.82	7.88	24.04	6.70
45.1	45.3	30.88	7.87	24.09	5.76
50.1	50.3	30.94	7.86	24.14	6.13*
60.1	60.4	30.99	7.85	24.18	4.15*
70.1	70.5	31.00	7.84	24.19	2.02*
80.0	80.4	31.01	7.84	24.20	2.39*
90.2	90.6	31.04	7.84	24.22	2.43*
100.0	100.5	31.06	7.83	24.24	2.03*
110.0	110.5	31.07	7.83	24.25	1.66*
120.0	120.6	31.08	7.84	24.25	1.70*
130.1	130.7	31.09	7.84	24.26	1.58*
140.0	140.7	31.10	7.85	24.27	1.76*
150.0	150.8	31.12	7.84	24.28	1.64*
160.1	160.9	31.13	7.85	24.28	1.10*
170.1	170.9	31.13	7.85	24.29	.96*
180.1	180.9	31.13	7.85	24.29	.97*
190.0	190.9	31.13	7.85	24.29	1.44*
200.1	201.1	31.15	7.86	24.30	1.92*
210.0	211.1	31.16	7.86	24.31	1.85*
220.2	221.2	31.17	7.86	24.32	1.76*
230.1	231.2	31.19	7.87	24.33	1.67*
240.1	241.3	31.20	7.87	24.34	1.78*
250.0	251.3	31.21	7.88	24.35	1.43*
260.0	261.3	31.21	7.88	24.35	.94*
270.1	271.4	31.21	7.88	24.35	1.07*
280.2	281.5	31.22	7.88	24.35	1.62*
290.1	291.6	31.24	7.89	24.37	1.94*
300.1	301.5	31.25	7.89	24.37	1.56*
310.0	311.6	31.25	7.89	24.38	1.77*
320.0	321.6	31.26	7.90	24.38	1.50*
330.1	331.7	31.27	7.90	24.39	.79*
340.1	341.8	31.26	7.90	24.38	.81*

MAX DEPTH 352.6

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 6 KNIGHT INLET 1977

LAT N50 40.60

DATE 13/ 8/77

TIME (PST) 1735

TAPE CZ0/78/ 2- 86

LONG W125 59.50

PASS NO. 78

STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	3.43	15.16	1.80	2.98*
2.0	2.0	3.47	15.14	1.84	28.92*
5.1	5.0	5.58	14.91	3.49	67.82*
10.0	10.0	29.07	8.39	22.61	64.09
15.1	15.2	30.18	7.94	23.53	6.62
20.1	20.2	30.50	7.84	23.79	15.12
25.1	25.2	30.76	7.87	23.99	6.40
30.1	30.3	30.88	7.85	24.10	6.04
35.0	35.2	30.92	7.86	24.12	4.41*
40.1	40.2	30.97	7.85	24.16	4.58
45.0	45.2	31.00	7.84	24.18	5.93
50.0	50.3	31.05	7.84	24.22	4.47*
60.1	60.4	31.06	7.73	24.25	+
MAX DEPTH	62.9				





CRUISE NO. 7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N51 4.00  
 DATE 24/ 8/77  
 TIME (PST) 1632

TAPE CZ0/78/ 3- 1  
 LONG W125 36.00  
 PASS NO. 33  
 STN: 0 - DMF

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.00	6.26	.03	+
2.1	2.0	.00	5.36	.05	21.25*
5.1	5.0	3.47	5.37	2.80	66.31*
10.0	10.0	28.42	8.67	22.06	61.25
15.1	15.1	29.60	7.90	23.09	17.95
20.0	20.1	29.98	7.62	23.42	11.37
25.0	25.1	30.15	7.54	23.57	9.13
30.1	30.2	30.33	7.48	23.72	10.46
35.1	35.2	30.49	7.45	23.84	8.06*
40.1	40.3	30.54	7.45	23.88	5.09
45.0	45.2	30.61	7.45	23.94	5.70
50.2	50.4	30.68	7.39	24.00	7.61
60.0	60.3	30.75	7.35	24.05	4.03*
70.1	70.4	30.82	7.31	24.12	4.35
80.0	80.4	30.87	7.30	24.16	
MAX DEPTH	87.8				



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N51 2.30  
 DATE 24/ 8/77  
 TIME (PST) 1600

TAPE CZ0/78/13- 2  
 LONG W125 33.80  
 PASS NO. 31  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	R-V
.0	.0	.00	6.61	.01	93.30
2.0	2.0	.00	6.32	.02	24.34*
5.0	5.0	1.64	5.10	1.36	61.13
10.0	10.0	26.86	8.41	22.44	28.95
15.1	15.2	29.61	7.85	23.10	16.56
20.1	20.2	30.09	7.55	23.52	14.48
25.1	25.2	30.26	7.49	23.66	9.57
30.1	30.3	30.42	7.46	23.78	7.41
35.0	35.2	30.52	7.45	23.87	7.83
40.1	40.2	30.61	7.45	23.94	5.74
45.0	45.3	30.65	7.42	23.97	5.58
50.2	50.5	30.70	7.39	24.01	4.34*
60.3	60.6	30.77	7.34	24.07	4.88
70.1	70.5	30.85	7.29	24.14	4.34*
80.0	80.4	30.88	7.29	24.17	3.57*
90.1	90.5	30.96	7.27	24.23	3.47*
100.1	100.6	30.97	7.27	24.24	2.07*
110.0	110.6	30.99	7.28	24.26	2.15*
120.1	120.7	31.00	7.30	24.26	1.78*
130.0	130.6	31.02	7.32	24.27	1.64*
140.1	140.8	31.04	7.36	24.28	1.38*
150.0	150.7	31.04	7.37	24.28	.98*
160.1	160.9	31.04	7.37	24.28	1.07*
170.1	170.9	31.06	7.37	24.30	1.45*
180.1	181.0	31.05	7.39	24.29	1.45*
190.2	191.1	31.07	7.40	24.30	1.16*
200.1	201.0	31.08	7.42	24.31	1.60*
210.1	211.2	31.09	7.42	24.31	1.98
220.1	221.2	31.08	7.42	24.31	+

MAX DEPTH 224.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 58.90  
 DATE 24/ 8/77  
 TIME (PST) 1528

TAPE CZ0/78/ 3- 3  
 LONG W125 33.20  
 PASS NO. 29  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.00	6.78	.01	150.93
2.0	2.0	.00	6.61	.01	37.59*
5.0	5.0	5.20	6.23	4.14	96.24
10.1	10.1	28.64	8.60	22.23	41.55
15.1	15.1	29.61	7.93	23.09	13.67
20.1	20.2	30.05	7.59	23.48	10.05
25.1	25.2	30.28	7.49	23.67	10.30
30.0	30.1	30.40	7.48	23.76	9.56
35.2	35.3	30.51	7.46	23.86	6.19
40.1	40.2	30.60	7.45	23.93	5.40
45.1	45.3	30.66	7.43	23.98	4.22
50.0	50.3	30.70	7.41	24.01	5.06
60.1	60.4	30.77	7.34	24.08	4.28*
70.0	70.4	30.83	7.30	24.13	3.60*
80.2	80.6	30.89	7.29	24.18	4.01*
90.2	90.6	30.93	7.28	24.21	3.04*
100.2	100.6	30.96	7.27	24.24	2.35*
110.1	110.7	30.97	7.28	24.24	2.07*
120.1	120.7	31.00	7.29	24.26	1.70*
130.0	130.7	31.01	7.30	24.27	1.57*
140.0	140.7	31.03	7.34	24.28	1.68*
150.1	150.8	31.04	7.35	24.29	1.32*
160.1	160.9	31.05	7.38	24.29	1.10*
170.1	170.9	31.05	7.39	24.29	1.25*
180.1	181.0	31.06	7.43	24.29	1.51*
190.1	191.0	31.07	7.42	24.30	1.35*
200.1	201.0	31.09	7.45	24.31	1.42*
210.0	211.0	31.08	7.41	24.31	1.57*
220.1	221.2	31.09	7.40	24.32	1.27*
230.1	231.2	31.10	7.40	24.32	1.29*
240.1	241.2	31.10	7.37	24.33	1.14*
250.2	251.4	31.11	7.44	24.33	3.89

MAX DEPTH 258.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 54.30  
 DATE 24/ 8/77  
 TIME (PST) 1441

TAPE CZ0/78/ 3- 4  
 LONG W125 32.80  
 PASS NO. 27  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.25	8.94	.07	+
2.0	2.0	.25	8.63	.09	15.64
5.0	5.0	.00	8.10	-.06	177.30
10.1	10.1	28.78	8.56	22.35	29.30
15.1	15.1	29.77	7.84	23.22	10.96
20.1	20.2	30.05	7.63	23.48	15.07
25.1	25.2	30.27	7.56	23.65	9.33
30.1	30.2	30.44	7.46	23.80	8.21
35.1	35.3	30.54	7.47	23.87	5.78
40.0	40.2	30.61	7.45	23.94	5.44
45.0	45.3	30.66	7.44	23.98	4.59
50.1	50.3	30.71	7.40	24.02	4.44
60.1	60.4	30.78	7.34	24.09	4.60*
70.1	70.4	30.84	7.31	24.13	3.49*
80.1	80.5	30.87	7.29	24.16	3.46*
90.2	90.6	30.92	7.28	24.20	4.98*
100.0	100.5	30.96	7.28	24.23	2.58*
110.0	110.6	30.98	7.28	24.25	2.06*
120.0	120.6	30.99	7.29	24.26	1.84*
130.1	130.7	31.01	7.33	24.27	1.66*
140.0	140.7	31.03	7.36	24.27	1.50*
150.0	150.7	31.04	7.40	24.28	1.36*
160.0	160.8	31.06	7.46	24.28	1.36*
170.1	170.9	31.07	7.48	24.29	1.41*
180.1	181.0	31.08	7.50	24.30	1.51*
190.1	191.0	31.10	7.56	24.31	1.49*
200.1	201.1	31.11	7.58	24.31	1.52*
210.1	211.1	31.12	7.63	24.31	1.26*
220.1	221.2	31.12	7.61	24.32	1.54*
230.1	231.2	31.13	7.52	24.33	2.11*
240.2	241.3	31.14	7.60	24.33	4.52
250.1	251.3	31.15	7.65	24.33	1.04*
260.0	261.3	31.16	7.69	24.33	+
270.2	271.5	31.16	7.70	24.33	1.43*
280.0	281.4	31.17	7.68	24.34	1.04*
290.0	291.4	31.17	7.67	24.35	1.33*
300.0	301.5	31.17	7.66	24.35	.99*
310.1	311.6	31.16	7.57	24.35	1.46*
320.1	321.7	31.17	7.61	24.36	1.13*
330.1	331.7	31.17	7.58	24.36	1.28*
340.0	341.7	31.16	7.52	24.35	.96*
360.1	361.9	31.15	7.47	24.36	+

MAX DEPTH 368.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 52.40  
 DATE 24/ 8/77  
 TIME (PST) 1352

TAPE CZ0/78/ 3- 5  
 LONG W125 38.50  
 PASS NO. 25  
 STN. 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.23	8.61	.08	135.48
2.0	2.0	.22	8.19	.10	33.67*
5.1	5.0	.00	8.45	-.09	85.39
10.1	10.1	28.66	8.52	22.27	35.29
15.1	15.1	29.69	7.93	23.15	19.43
20.1	20.2	30.15	7.72	23.54	10.54
25.1	25.2	30.33	7.69	23.68	6.84
30.2	30.3	30.43	7.60	23.78	7.13
35.0	35.2	30.55	7.55	23.88	7.00
40.2	40.4	30.62	7.47	23.94	7.12*
45.2	45.4	30.67	7.43	23.99	5.30
50.1	50.3	30.73	7.40	24.04	5.13*
60.0	60.3	30.80	7.33	24.10	4.20
70.1	70.4	30.86	7.32	24.15	3.37*
80.1	80.5	30.89	7.32	24.18	3.32*
90.1	90.5	30.95	7.31	24.22	4.55
100.1	100.6	30.98	7.29	24.25	1.98*
110.1	110.6	31.01	7.32	24.26	2.37*
120.0	120.6	31.06	7.60	24.27	1.53*
130.1	130.7	31.06	7.55	24.28	1.01*
140.1	140.7	31.08	7.62	24.28	+
150.1	150.8	31.08	7.59	24.28	1.61
160.1	160.9	31.09	7.62	24.29	1.59*
170.1	170.9	31.09	7.64	24.29	1.39*
180.1	181.0	31.12	7.69	24.30	1.37*
190.0	190.9	31.13	7.73	24.30	2.19*
200.0	201.0	31.15	7.81	24.31	1.44*
210.1	211.1	31.16	7.81	24.32	1.07*
220.3	221.4	31.17	7.81	24.32	1.46*
230.1	231.2	31.17	7.82	24.33	1.18*
240.1	241.3	31.20	7.83	24.35	1.21*
250.0	251.2	31.18	7.82	24.33	1.20*
260.1	261.4	31.18	7.83	24.33	1.38*
270.2	271.5	31.20	7.80	24.35	1.23*
280.1	281.4	31.19	7.79	24.34	1.20*
290.1	291.5	31.19	7.78	24.34	.94*
300.0	301.5	31.19	7.72	24.36	1.56*
310.1	311.6	31.19	7.73	24.35	1.38*
320.1	321.7	31.19	7.72	24.35	.89*
330.2	331.8	31.20	7.72	24.36	1.26*
340.1	341.7	31.19	7.70	24.36	1.26*
360.2	362.0	31.21	7.71	24.37	+
380.2	382.0	31.19	7.66	24.36	

MAX DEPTH 384.9



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 47.90  
 DATE 24/ 8/77  
 TIME (PST) 1300

TAPE CZ0/78/ 3- 6  
 LONG W125 37.00  
 PASS NO. 23  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.45	9.07	.22	17.45
2.1	2.0	.64	8.94	.38	18.71
5.0	5.0	.00	8.61	-.10	179.93
10.1	10.1	28.53	8.47	22.17	30.95
15.1	15.2	29.57	8.0	23.03	18.15
20.2	20.3	29.93	7.89	23.35	13.64
25.1	25.2	30.20	7.77	23.57	7.89
30.0	30.2	30.37	7.68	23.71	7.77
35.1	35.2	30.45	7.61	23.79	8.92
40.0	40.2	30.58	7.61	23.90	7.65
45.0	45.2	30.64	7.62	23.94	4.76
50.1	50.4	30.69	7.47	23.99	5.37*
60.0	60.3	30.77	7.40	24.07	4.19
70.0	70.3	30.83	7.34	24.12	4.30*
80.0	80.4	30.89	7.34	24.17	3.37*
90.0	90.4	30.92	7.32	24.19	3.08*
100.1	100.5	30.96	7.32	24.23	2.71*
110.1	110.7	30.98	7.36	24.24	2.38*
120.0	120.6	31.03	7.48	24.26	2.02*
130.0	130.6	31.04	7.56	24.26	1.67*
140.1	140.7	31.04	7.50	24.27	1.40*
150.0	150.8	31.06	7.55	24.27	1.54*
160.1	160.9	31.07	7.56	24.28	3.79*
170.0	170.8	31.10	7.66	24.29	1.56*
180.2	181.0	31.13	7.72	24.30	1.22*
190.1	191.0	31.14	7.81	24.30	1.15*
200.2	201.2	31.15	7.83	24.31	1.66*
210.0	211.1	31.16	7.84	24.31	1.71*
220.1	221.2	31.17	7.83	24.32	1.34*
230.1	231.2	31.17	7.84	24.32	1.42*
240.0	241.2	31.18	7.83	24.33	1.61*
250.0	251.3	31.19	7.85	24.34	1.37*
260.0	261.3	31.19	7.84	24.33	.99*
270.0	271.3	31.20	7.84	24.34	.92*
280.1	281.4	31.20	7.83	24.34	1.11*
290.1	291.5	31.19	7.83	24.34	1.18*
300.1	301.5	31.19	7.82	24.34	1.12*
310.0	311.5	31.20	7.81	24.35	.98*
320.1	321.7	31.20	7.80	24.35	3.78
330.0	331.6	31.21	7.78	24.36	1.87*
340.1	341.7	31.21	7.79	24.36	1.66*
360.0	361.8	31.22	7.81	24.36	1.39*
380.0	381.9	31.22	7.74	24.37	

MAX DEPTH 382.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 45.10  
 DATE 24/ 8/77  
 TIME (PST) 1215

TAPE CZ0/78/ 3- 7  
 LONG W125 41.00  
 PASS NO. 21  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.49	9.77	.19	+
2.0	2.0	.52	9.87	.21	46.68
5.1	5.0	.00	8.99	-.12	205.95
10.0	10.0	28.81	8.34	22.41	20.77
15.1	15.2	29.76	8.01	23.19	20.31
20.1	20.2	30.07	7.90	23.46	11.97
25.2	25.3	30.22	7.82	23.58	6.25
30.1	30.2	30.38	7.79	23.71	11.20*
35.1	35.2	30.45	7.64	23.79	7.48*
40.1	40.3	30.57	7.66	23.88	7.70
45.0	45.2	30.66	7.54	23.96	5.36
50.1	50.4	30.71	7.51	24.01	5.54
60.0	60.3	30.76	7.48	24.05	3.71
70.1	70.4	30.83	7.38	24.12	3.66*
80.1	80.5	30.86	7.38	24.14	3.51*
90.1	90.5	30.92	7.35	24.19	5.06
100.0	100.5	30.96	7.39	24.22	2.37*
110.0	110.5	30.99	7.44	24.23	1.06*
120.0	120.6	31.03	7.48	24.26	2.04*
130.1	130.8	31.06	7.59	24.27	1.74*
140.1	140.7	31.07	7.63	24.27	1.29*
150.1	150.8	31.10	7.70	24.29	1.32*
160.1	160.8	31.11	7.72	24.29	1.31*
170.1	170.9	31.13	7.76	24.30	1.47*
180.1	181.0	31.14	7.81	24.30	1.19*
190.0	190.9	31.14	7.82	24.30	1.18*
200.1	201.0	31.15	7.83	24.31	1.35*
210.1	211.1	31.16	7.85	24.31	1.09*
220.1	221.2	31.17	7.84	24.32	1.21*
230.0	231.2	31.17	7.84	24.32	1.31*
240.1	241.3	31.18	7.85	24.33	1.52*
250.1	251.3	31.18	7.84	24.33	1.51*
260.1	261.4	31.19	7.84	24.33	1.34*
270.1	271.4	31.19	7.84	24.33	1.17*
280.1	281.4	31.20	7.83	24.34	1.51*
290.1	291.5	31.20	7.86	24.34	1.09*
300.0	301.5	31.21	7.87	24.35	1.35*
310.0	311.5	31.22	7.87	24.35	1.26*
320.1	321.6	31.22	7.87	24.36	1.40*
330.2	331.9	31.22	7.87	24.36	1.16*
340.1	341.8	31.22	7.87	24.36	1.55*
360.2	362.0	31.24	7.87	24.37	.93*

MAX DEPTH 377.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 41.90  
 DATE 24/ 8/77  
 TIME (PST) 1138

TAPE CZ0/78/ 3- 8  
 LONG W125 43.50  
 PASS NO. 19  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	6.13	9.88	4.58	3.39
2.1	2.0	6.24	9.86	4.67	15.45
5.0	5.0	21.68	9.42	16.72	175.69
10.0	10.1	28.96	8.28	22.53	27.25
15.1	15.1	29.92	8.02	23.32	16.80
20.1	20.2	30.32	7.91	23.65	11.60
25.0	25.1	30.49	7.81	23.79	7.96
30.0	30.1	30.56	7.80	23.85	5.33
35.1	35.2	30.66	7.80	23.93	7.63
40.1	40.3	30.71	7.77	23.97	6.33*
45.1	45.3	30.78	7.77	24.03	5.54
50.1	50.3	30.80	7.66	24.06	4.59*
60.1	60.3	30.84	7.61	24.09	4.12*
70.1	70.4	30.89	7.52	24.14	4.27*
80.0	80.4	30.93	7.42	24.19	3.51*
90.1	90.5	30.98	7.43	24.23	2.25*
100.1	100.6	30.99	7.40	24.24	1.59*
110.1	110.6	31.02	7.51	24.25	3.61
120.1	120.7	31.05	7.62	24.26	1.97*
130.1	130.7	31.08	7.69	24.27	1.53*
140.1	140.8	31.10	7.74	24.28	1.81*
150.1	150.8	31.12	7.79	24.29	1.18*
160.1	160.8	31.13	7.81	24.29	1.00*
170.0	170.8	31.13	7.82	24.30	1.06*
180.1	180.9	31.15	7.83	24.31	1.37*
190.0	191.0	31.16	7.84	24.31	1.47*
200.0	201.0	31.15	7.85	24.31	1.24*
210.1	211.1	31.16	7.85	24.31	3.04
220.0	221.1	31.17	7.85	24.32	1.19*
230.1	231.2	31.18	7.85	24.33	1.68*
240.1	241.2	31.18	7.85	24.33	1.09*
250.1	251.4	31.18	7.86	24.33	1.29*
260.1	261.3	31.19	7.86	24.34	1.47*
270.0	271.4	31.20	7.85	24.34	1.18*
280.1	281.4	31.19	7.85	24.34	.80*
290.1	291.5	31.20	7.85	24.34	1.16*
300.0	301.5	31.21	7.85	24.35	1.41*
310.0	311.5	31.21	7.85	24.35	1.17*
320.1	321.7	31.22	7.86	24.36	1.44*
330.0	331.7	31.23	7.86	24.36	1.28*
340.0	341.7	31.23	7.86	24.37	1.32*
360.1	361.9	31.24	7.87	24.37	.71*
380.0	381.9	31.24	7.87	24.37	

MAX DEPTH 389.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 41.70  
 DATE 24/ 8/77  
 TIME (PST) 1108

TAPE CZ0/78/ 3- 9  
 LONG W125 46.60  
 PASS NO. 17  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	1.29	9.94	.80	49.88*
2.0	2.0	2.87	9.92	2.04	63.07*
5.0	5.0	11.01	10.08	8.36	82.87*
10.1	10.1	29.05	8.25	22.61	61.36
15.1	15.2	29.79	8.06	23.21	12.78
20.0	20.1	30.21	7.94	23.55	11.46
25.0	25.1	30.50	7.84	23.79	6.03
30.0	30.1	30.53	7.83	23.82	5.63*
35.0	35.2	30.65	7.81	23.92	6.94*
40.0	40.2	30.73	7.77	23.99	6.01*
45.1	45.3	30.78	7.70	24.04	5.45
50.1	50.3	30.81	7.67	24.06	5.03
60.2	60.5	30.90	7.67	24.14	4.44
70.1	70.4	30.94	7.53	24.18	2.46*
80.1	80.5	30.95	7.42	24.21	3.32*
90.0	90.4	30.98	7.44	24.22	1.90*
100.1	100.6	31.00	7.44	24.24	1.42*
110.0	110.6	31.02	7.49	24.25	2.02*
120.1	120.6	31.03	7.54	24.25	1.72*
130.2	130.8	31.05	7.62	24.26	2.19*
140.0	140.7	31.08	7.69	24.27	1.55*
150.0	150.8	31.09	7.73	24.27	2.02*
160.0	160.8	31.12	7.79	24.29	1.41*
170.2	171.0	31.13	7.81	24.30	1.16*
180.0	180.9	31.13	7.82	24.29	.79*
190.1	191.0	31.13	7.83	24.30	1.39*
200.1	201.1	31.15	7.83	24.30	1.18*
210.1	211.1	31.15	7.83	24.30	.69*
220.0	221.1	31.15	7.83	24.31	1.03*
230.0	231.1	31.16	7.84	24.31	1.55*
240.1	241.3	31.17	7.85	24.32	1.37*
250.1	251.3	31.17	7.85	24.32	1.67*
260.0	261.3	31.18	7.85	24.33	1.40*
270.0	271.3	31.20	7.85	24.34	1.90*
280.0	281.4	31.20	7.84	24.34	1.04*
290.1	291.5	31.21	7.83	24.35	1.07*
300.2	301.6	31.21	7.84	24.35	1.25*
310.0	311.6	31.21	7.85	24.35	1.33*
320.0	321.6	31.23	7.85	24.37	.90*
330.1	331.7	31.23	7.85	24.37	.07*
340.1	341.7	31.23	7.85	24.37	.71*

MAX DEPTH 350.5



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 41.60  
 DATE 24/ 8/77  
 TIME (PST) 1039

TAPE CZ0/78/ 3- 10  
 LONG W125 49.30  
 PASS NO. 15  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.78	10.02	1.96	27.49
2.0	2.0	4.72	10.03	3.47	68.55
5.1	5.0	20.39	9.62	15.69	131.72
10.0	10.0	26.71	8.73	20.72	42.87
15.1	15.1	28.80	8.3	22.40	34.96
20.1	20.2	29.99	8.03	23.37	17.51
25.1	25.2	30.16	7.96	23.51	10.90*
30.3	30.4	30.55	7.85	23.83	10.92*
35.1	35.2	30.56	7.84	23.84	7.01*
40.1	40.2	30.64	7.82	23.91	5.01
45.2	45.4	30.68	7.82	23.94	6.54
50.1	50.3	30.78	7.78	24.03	8.19
60.1	60.3	30.88	7.74	24.11	4.36
70.0	70.4	30.93	7.53	24.17	4.53*
80.0	80.4	30.97	7.62	24.19	2.95*
90.1	90.5	30.97	7.41	24.23	3.54*
100.2	100.6	31.00	7.47	24.24	2.84*
110.2	110.7	31.01	7.53	24.24	1.97*
120.1	120.7	31.08	7.57	24.29	4.33*
130.1	130.7	31.08	7.69	24.27	1.34*
140.1	140.8	31.10	7.72	24.28	1.43*
150.1	150.8	31.11	7.76	24.29	1.46*
160.1	160.9	31.12	7.78	24.29	1.71*
170.0	170.8	31.15	7.82	24.31	1.66*
180.1	181.0	31.14	7.82	24.30	1.29*
190.0	190.9	31.15	7.83	24.31	1.22*
200.1	201.0	31.16	7.83	24.31	1.27*
210.1	211.1	31.16	7.83	24.31	1.59*
220.1	221.1	31.17	7.82	24.32	1.57*
230.0	231.1	31.17	7.82	24.32	1.22*
240.0	241.2	31.18	7.8	24.33	1.49*
250.1	251.3	31.18	7.84	24.33	1.70*
260.0	261.3	31.20	7.83	24.35	1.53*
270.0	271.3	31.21	7.84	24.35	1.50*
280.1	281.5	31.21	7.85	24.35	1.69*
290.1	291.5	31.22	7.84	24.36	1.40*
300.1	301.6	31.22	7.85	24.36	1.16*
310.1	311.6	31.23	7.85	24.37	1.04*
320.1	321.6	31.23	7.85	24.37	1.44*

MAX DEPTH 324.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 41.10  
 DATE 24/ 8/77  
 TIME (PST) 1011

TAPE CZ0/78/ 3- 11  
 LONG W125 51.90  
 PASS NO. 13  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	3.30	10.23	2.34	+
2.1	2.1	3.60	10.27	2.57	59.55
5.0	5.0	15.31	10.13	11.68	93.50
10.1	10.1	27.78	8.57	21.58	28.38
15.1	15.1	28.66	8.37	22.29	19.69
20.1	20.2	29.49	8.16	22.96	16.41
25.1	25.2	29.98	8.03	23.36	9.77
30.0	30.2	30.37	7.93	23.68	14.34
35.1	35.3	30.49	7.89	23.78	8.76*
40.2	40.3	30.61	7.86	23.88	6.41
45.2	45.4	30.66	7.84	23.92	4.68
50.0	50.3	30.71	7.83	23.96	5.51
60.0	60.3	30.88	7.79	24.10	5.37*
70.2	70.5	30.95	7.75	24.16	3.49*
80.1	80.5	30.96	7.74	24.17	2.82*
90.0	90.5	30.97	7.52	24.21	3.79*
100.1	100.5	30.99	7.52	24.23	2.42*
110.1	110.7	31.02	7.56	24.24	2.16*
120.2	120.8	31.05	7.64	24.26	2.06*
130.1	130.7	31.07	7.65	24.27	2.02*
140.1	140.7	31.10	7.73	24.28	1.81*
150.1	150.8	31.11	7.78	24.28	1.49*
160.1	160.9	31.12	7.79	24.29	1.54*
170.1	170.9	31.13	7.80	24.29	1.46*
180.0	180.9	31.13	7.80	24.30	1.24*
190.0	191.0	31.13	7.80	24.30	1.23*
200.1	201.0	31.14	7.81	24.31	1.18*
210.1	211.1	31.15	7.81	24.31	1.47*
220.1	221.2	31.16	7.81	24.32	1.66*
230.1	231.2	31.17	7.82	24.33	1.26*
240.1	241.3	31.18	7.82	24.33	1.33*
250.0	251.2	31.19	7.83	24.33	1.37*
260.1	261.3	31.19	7.84	24.34	1.14*
270.2	271.5	31.19	7.84	24.34	1.37*
280.2	281.5	31.20	7.84	24.34	1.40*
290.1	291.5	31.20	7.84	24.34	1.71*
300.0	301.5	31.22	7.84	24.36	1.62*
310.1	311.6	31.23	7.84	24.37	1.37*
320.2	321.7	31.23	7.85	24.37	1.28*
330.1	331.7	31.24	7.85	24.37	1.22*
340.0	341.7	31.23	7.85	24.37	+

MAX DEPTH 348.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 40.70  
 DATE 24/ 8/77  
 TIME (PST) 0932

TAPE CZ0/78/ 3- 12  
 LONG W125 54.40  
 PASS NO. 11  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	3.39	10.54	2.38	77.48
2.1	2.1	11.79	10.07	8.96	117.70
5.0	5.0	26.34	8.79	20.42	47.02
10.1	10.2	28.98	8.30	22.54	20.39
15.1	15.1	29.39	8.20	22.88	15.81
20.1	20.2	29.86	8.08	23.27	13.88
25.1	25.3	30.32	7.95	23.64	10.74
30.1	30.2	30.48	7.89	23.77	6.73
35.0	35.2	30.56	7.88	23.83	11.20
40.1	40.2	30.65	7.84	23.92	6.95
45.1	45.3	30.75	7.81	24.00	7.16
50.1	50.3	30.80	7.80	24.04	4.53*
60.1	60.4	30.85	7.79	24.08	6.16
70.1	70.4	30.94	7.75	24.16	4.99*
80.1	80.4	30.95	7.72	24.17	4.48
90.1	90.6	30.98	7.65	24.20	2.74*
100.0	100.5	31.02	7.70	24.22	2.49*
110.0	110.6	31.04	7.72	24.24	1.90*
120.0	120.6	31.05	7.71	24.25	1.94*
130.1	130.7	31.08	7.74	24.26	1.95*
140.1	140.7	31.09	7.76	24.27	1.84*
150.1	150.9	31.09	7.76	24.27	1.63*
160.3	161.0	31.10	7.77	24.28	1.54*
170.1	170.9	31.11	7.78	24.28	1.18*
180.0	180.9	31.11	7.79	24.28	1.05*
190.0	190.9	31.12	7.79	24.29	1.13*
200.0	201.0	31.13	7.79	24.29	1.20*
210.0	211.0	31.13	7.80	24.29	1.43*
220.1	221.1	31.14	7.80	24.30	1.75*
230.1	231.2	31.15	7.81	24.31	1.45*
240.1	241.2	31.14	7.81	24.30	1.12*
250.0	251.3	31.16	7.81	24.31	1.19*
260.1	261.3	31.16	7.81	24.32	1.16*
270.2	271.5	31.16	7.8	24.31	1.02*
280.1	281.5	31.16	7.82	24.32	.86*
290.1	291.5	31.16	7.82	24.32	1.41*
300.1	301.5	31.17	7.82	24.32	1.76*
310.0	311.5	31.18	7.82	24.33	1.65*
320.1	321.7	31.19	7.83	24.34	1.51*
330.1	331.7	31.19	7.83	24.34	1.42*
340.0	341.7	31.19	7.84	24.34	.93*
360.1	361.8	31.21	7.84	24.35	1.39*

MAX DEPTH 363.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 24/ 8/77  
 TIME (PST) 0901

TAPE CZ0/78/ 3- 13  
 LONG W125 57.20  
 PASS NO. 9  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.78	10.53	1.91	22.00
2.2	2.1	7.15	10.48	5.32	115.35
5.1	5.1	26.52	8.79	20.56	97.55
10.1	10.2	28.34	8.43	22.03	23.20
15.0	15.1	29.24	8.21	22.76	24.10
20.0	20.1	29.78	8.11	23.20	15.52
25.1	25.2	30.16	8.01	23.50	15.07
30.0	30.2	30.27	7.97	23.60	7.54
35.1	35.2	30.48	7.90	23.78	10.76
40.1	40.3	30.61	7.87	23.88	5.32
45.1	45.3	30.71	7.86	23.96	4.43*
50.1	50.3	30.75	7.85	23.99	4.06*
60.2	60.5	30.78	7.85	24.01	4.12
70.1	70.4	30.95	7.82	24.15	3.71*
80.1	80.4	30.97	7.82	24.17	4.40*
90.0	90.4	30.96	7.82	24.16	+
100.0	100.5	31.00	7.81	24.19	2.28*
110.1	110.6	31.01	7.81	24.20	2.46*
120.0	120.6	31.05	7.81	24.24	2.66*
130.0	130.7	31.05	7.80	24.23	+
140.1	140.7	31.05	7.81	24.23	.99*
150.0	150.7	31.05	7.81	24.23	+
160.3	161.0	31.07	7.81	24.25	1.68*
170.1	170.9	31.09	7.81	24.26	1.47*
180.1	180.9	31.09	7.81	24.26	1.34*
190.1	191.0	31.10	7.81	24.27	2.27*
200.0	201.0	31.13	7.81	24.29	4.45
210.0	211.0	31.14	7.81	24.30	+
220.0	221.1	31.16	7.82	24.32	2.03*
230.1	231.2	31.15	7.81	24.31	1.03*
240.0	241.2	31.16	7.82	24.31	1.66*
250.2	251.4	31.12	7.82	24.28	+
260.2	261.4	31.14	7.82	24.30	3.61
270.0	271.3	31.16	7.83	24.32	+
280.1	281.4	31.16	7.83	24.32	+
290.0	291.4	31.16	7.83	24.32	+
300.0	301.5	31.17	7.83	24.33	1.76*

MAX DEPTH 307.7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 24/ 8/77  
 TIME (PST) 0728

TAPE CZ0/78/ 3- 14  
 LONG W125 59.50  
 PASS NO. 7  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	3.06	10.57	2.12	+
2.1	2.0	4.70	10.54	3.41	88.38
5.0	5.0	26.66	8.70	20.69	43.23
10.1	10.2	28.22	8.44	21.93	29.32
15.0	15.1	29.31	8.18	22.82	11.62
20.0	20.1	29.67	8.13	23.11	20.82
25.0	25.1	30.43	7.93	23.73	11.90
30.0	30.2	30.54	7.91	23.82	6.85*
35.0	35.2	30.58	7.90	23.85	4.57*
40.1	40.3	30.73	7.88	23.97	5.64*
45.1	45.3	30.78	7.87	24.01	8.37
50.1	50.3	31.05	7.79	24.23	11.69
60.0	60.3	31.31	7.82	24.43	
MAX DEPTH	61.7				

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 39.90  
 DATE 24/ 8/77  
 TIME (PST) 0653

TAPE CZ0/78/ 3- 15  
 LONG W126 4.20  
 PASS NO. 5  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	4.63	11.23	3.27	36.95
2.1	2.1	9.38	11.19	6.96	83.77
5.1	5.0	23.20	9.50	17.88	98.14
10.1	10.1	28.66	8.40	22.29	27.46
15.1	15.2	30.04	8.03	23.42	17.26
20.1	20.2	30.36	7.95	23.67	9.36
25.2	25.3	30.72	7.84	23.97	9.65
30.0	30.2	30.89	7.79	24.11	5.60
35.2	35.4	30.92	7.77	24.14	6.61*
40.0	40.2	31.05	7.73	24.25	5.46*
45.0	45.3	31.10	7.74	24.28	3.68*
50.1	50.3	31.12	7.80	24.29	4.25
60.0	60.3	31.28	7.89	24.40	6.27*
70.1	70.4	31.49	7.94	24.55	8.16
80.1	80.5	31.64	7.95	24.67	5.25
90.0	90.5	31.70	7.9	24.72	4.18*
100.0	100.6	31.76	7.95	24.77	1.75*
110.0	110.6	31.77	7.95	24.77	1.60*
120.0	120.7	31.81	7.95	24.80	3.60*
130.0	130.7	31.83	7.95	24.82	2.73*
140.1	140.8	31.86	7.95	24.84	2.31*
150.1	150.9	31.87	7.95	24.85	1.42*
160.1	161.0	31.87	7.95	24.85	1.26*
170.1	171.0	31.87	7.95	24.86	1.23*
180.1	181.1	31.90	7.95	24.88	2.58*

MAX DEPTH 187.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 39.20  
 DATE 24/ 8/77  
 TIME (PST) 0603

TAPE CZ0/78/ 3- 16  
 LONG W126 12.50  
 PASS NO. 3  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	5.90	11.48	4.22	66.82
2.1	2.1	8.85	11.45	6.51	67.40
5.1	5.0	21.57	10.44	16.49	118.17
10.1	10.1	28.62	8.68	22.21	28.58
15.1	15.1	29.96	8.23	23.32	18.17
20.1	20.2	30.29	8.12	23.59	12.07*
25.1	25.2	30.44	8.05	23.72	8.22
30.1	30.2	30.60	7.92	23.87	5.18
35.2	35.3	30.64	7.90	23.90	7.43*
40.1	40.3	30.80	7.82	24.04	6.86
45.0	45.2	30.93	7.79	24.14	6.88
50.0	50.3	30.95	7.76	24.16	5.76*
60.1	60.4	31.10	7.88	24.26	6.96*
70.0	70.4	31.37	7.96	24.46	5.54
80.1	80.5	31.44	7.98	24.51	3.63*
90.0	90.5	31.48	7.98	24.55	5.82
100.0	100.6	31.70	7.97	24.72	6.29
110.0	110.6	31.77	7.95	24.78	3.73*
120.1	120.7	31.79	7.95	24.79	1.61*
130.0	130.7	31.79	7.95	24.79	2.16*
140.1	140.9	31.83	7.95	24.82	2.93*
150.1	150.9	31.89	7.95	24.87	5.39*
160.1	160.9	31.90	7.94	24.88	1.93*
170.1	171.0	31.91	7.93	24.89	1.23*

MAX DEPTH 178.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 7 KNIGHT INLET 1977  
 LAT N50 38.50  
 DATE 24/ 8/77  
 TIME (PST) 0524

TAPE CZ0/78/ 3- 17  
 LONG W126 17.30  
 PASS NO. 1  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	5.42	11.88	3.81	+
2.1	2.0	7.04	11.99	5.04	4.01
5.1	5.0	22.53	11.14	17.12	+
10.0	10.1	29.20	8.81	22.65	20.04
15.1	15.2	30.17	8.24	23.49	13.02
20.0	20.1	30.58	8.06	23.83	11.17
25.1	25.2	30.71	8.06	23.93	7.00
30.0	30.1	30.85	8.06	24.04	9.96
35.1	35.2	30.87	8.07	24.05	6.53*
40.1	40.2	31.00	7.99	24.17	8.02
45.1	45.3	31.10	7.99	24.25	7.63
50.1	50.3	31.14	8.01	24.27	5.61*
60.1	60.4	31.27	7.99	24.38	5.97*
70.2	70.5	31.42	7.99	24.49	5.80
80.1	80.5	31.54	7.99	24.59	6.72
90.1	90.5	31.70	7.98	24.71	7.26
100.1	100.6	31.75	7.96	24.76	3.02*
110.1	110.7	31.79	7.96	24.79	2.65*
120.1	120.7	31.80	7.95	24.80	3.04*
130.1	130.8	31.87	7.94	24.85	+
140.1	140.9	31.88	7.94	24.86	1.71*
150.1	150.9	31.92	7.93	24.90	+
160.0	160.9	31.98	7.92	24.94	3.08*
170.0	170.9	31.99	7.92	24.95	2.35*
180.4	181.3	32.00	7.92	24.96	1.22*
190.0	191.1	32.02	7.92	24.97	2.58*
200.2	201.3	32.04	7.92	24.99	2.06*
210.1	211.2	32.04	7.92	24.99	+
220.1	221.3	32.05	7.92	25.00	1.46*
230.1	231.4	32.06	7.92	25.01	1.84*

MAX DEPTH 237.3





CRUISE NO. 8



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N51 2.30  
 DATE 28/ 9/77  
 TIME (PST) 1611

TAPE CZ0/78/ 3- 18  
 LONG W125 33.80  
 PASS NO. 33  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	3.96	9.38	2.94	171.49
2.1	2.1	19.73	8.26	15.34	108.98
5.2	5.2	26.18	8.85	20.29	42.09
10.2	10.2	28.68	8.54	22.28	29.27
15.1	15.2	29.53	7.98	23.02	16.95
20.2	20.3	29.99	7.65	23.42	13.38
25.2	25.3	30.24	7.52	23.64	11.47
30.0	30.2	30.42	7.47	23.78	7.13
35.1	35.2	30.49	7.46	23.84	6.66
40.3	40.5	30.59	7.45	23.92	5.09
45.1	45.3	30.65	7.43	23.97	6.32
50.2	50.4	30.74	7.37	24.05	5.18
60.4	60.6	30.83	7.31	24.13	4.34*
70.3	70.6	30.88	7.29	24.17	3.97*
80.2	80.6	30.95	7.28	24.23	4.01*
90.2	90.6	31.01	7.30	24.27	2.67*
100.0	100.5	31.02	7.32	24.27	2.31*
110.3	110.8	31.05	7.36	24.30	2.30*
120.2	120.7	31.07	7.39	24.30	1.96*
130.3	130.9	31.09	7.39	24.32	1.86*
140.4	141.1	31.10	7.43	24.32	1.50*
150.2	151.0	31.11	7.48	24.32	1.58*
160.3	161.0	31.14	7.52	24.34	1.45*
170.3	171.1	31.14	7.50	24.35	1.57*
180.2	181.1	31.15	7.50	24.35	1.35*
190.1	191.0	31.15	7.48	24.36	1.07*
200.3	201.3	31.15	7.48	24.36	1.26*
210.1	211.1	31.16	7.45	24.36	1.12*
220.1	221.2	31.16	7.43	24.37	

MAX DEPTH 224.3



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 58.90  
 DATE 28/ 9/77  
 TIME (PST) 1534

TAPE CZ0/78/ 3- 19  
 LONG W125 33.20  
 PASS NO. 31  
 STN: 2 - KNT0

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	3.45	8.83	2.59	154.23
2.2	2.2	20.74	9.32	15.99	102.69
5.1	5.1	27.01	8.86	20.93	43.39
10.3	10.3	28.91	8.40	22.48	25.12
15.0	15.1	29.70	7.90	23.16	21.31
20.2	20.2	30.08	7.61	23.50	12.96
25.3	25.4	30.32	7.49	23.71	9.62
30.1	30.2	30.50	7.47	23.84	9.01
35.0	35.2	30.59	7.45	23.92	6.11
40.3	40.5	30.67	7.43	23.99	5.47
45.3	45.5	30.72	7.40	24.03	4.40
50.3	50.5	30.78	7.35	24.08	5.60
60.2	60.5	30.86	7.30	24.15	4.63*
70.3	70.7	30.91	7.29	24.19	3.60*
80.0	80.4	30.96	7.28	24.23	3.45*
90.1	90.5	31.01	7.30	24.27	2.80*
100.3	100.8	31.04	7.35	24.28	2.50*
110.2	110.8	31.06	7.38	24.30	3.35
120.1	120.6	31.09	7.42	24.32	1.96*
130.2	130.8	31.10	7.46	24.32	1.28*
140.2	140.9	31.11	7.48	24.32	1.41*
150.0	150.8	31.13	7.53	24.33	1.34*
160.3	161.1	31.14	7.54	24.34	1.23*
170.2	171.1	31.15	7.52	24.35	1.74*
180.2	181.0	31.15	7.52	24.35	1.50*
190.2	191.1	31.16	7.52	24.35	.73*
200.2	201.2	31.16	7.5	24.36	1.20*
210.2	211.2	31.16	7.48	24.36	1.61*
220.1	221.2	31.15	7.44	24.36	1.89*
230.2	231.4	31.16	7.45	24.37	1.35*
240.1	241.3	31.16	7.46	24.37	.81*
250.0	251.3	31.17	7.45	24.38	.98*
260.0	261.3	31.17	7.43	24.38	1.24*
270.0	271.4	31.17	7.4	24.38	1.50
281.3	282.7	31.18	7.46	24.38	

MAX DEPTH 281.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 54.30  
 DATE 28/ 9/77  
 TIME (PST) 1450

TAPE CZ0/78/ 3- 20  
 LONG W125 32.80  
 PASS NO. 29  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	3.93	9.11	2.94	65.69
2.1	2.1	13.38	9.21	10.30	95.10
5.3	5.3	25.81	9.04	19.97	55.90
10.1	10.1	28.82	8.40	22.41	23.36
15.3	15.4	29.59	8.00	23.06	14.76
20.2	20.2	29.90	7.79	23.33	12.32
25.1	25.2	30.27	7.59	23.65	10.53
30.2	30.4	30.41	7.52	23.77	9.97
35.3	35.4	30.54	7.47	23.88	7.01
40.2	40.4	30.64	7.44	23.96	6.79
45.3	45.5	30.74	7.38	24.04	6.70
50.1	50.3	30.76	7.35	24.07	4.62*
60.3	60.6	30.84	7.30	24.13	5.12
70.1	70.5	30.91	7.28	24.19	3.90*
80.1	80.4	30.94	7.28	24.22	2.97*
90.2	90.7	30.98	7.28	24.25	2.74*
100.3	100.8	31.03	7.34	24.28	2.44*
110.3	110.8	31.06	7.43	24.29	2.35*
120.0	120.6	31.09	7.52	24.30	1.84*
130.2	130.8	31.09	7.50	24.31	1.37*
140.2	140.9	31.12	7.58	24.32	1.79*
150.2	151.0	31.13	7.60	24.32	1.94*
160.3	161.0	31.16	7.64	24.34	.84*
170.1	170.9	31.18	7.66	24.35	3.93*
180.2	181.0	31.17	7.65	24.35	1.31*
190.1	191.0	31.18	7.70	24.35	1.31*
200.2	201.1	31.18	7.65	24.35	1.43*
210.2	211.2	31.18	7.62	24.36	1.24*
220.1	221.2	31.18	7.57	24.37	.91*
230.2	231.4	31.20	7.64	24.37	.64*
240.2	241.4	31.19	7.59	24.38	.59*
250.1	251.3	31.20	7.62	24.38	.97*
260.1	261.4	31.20	7.60	24.38	.99*
270.1	271.5	31.20	7.57	24.38	.79*
280.1	281.5	31.21	7.61	24.38	+
290.1	291.6	31.20	7.58	24.38	.61*
300.3	301.8	31.19	7.52	24.38	3.32
310.2	311.7	31.19	7.47	24.38	.75*
320.2	321.8	31.19	7.46	24.39	.74*
330.1	331.7	31.19	7.47	24.38	.56*
340.0	341.7	31.19	7.46	24.39	.91*
360.3	362.0	31.19	7.50	24.39	+
380.0	381.9	31.21	7.55	24.39	.45*
400.2	402.2	31.23	7.66	24.39	.98*

MAX DEPTH 415.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 52.40  
 DATE 28/ 9/77  
 TIME (PST) 1401

TAPE CZ0/78/ 3- 21  
 LONG W125 38.50  
 PASS NO. 27  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	5.95	9.39	4.49	37.81
2.0	2.0	10.74	9.35	8.23	86.60
5.0	5.0	24.81	8.91	19.22	65.07
10.1	10.1	28.27	8.55	21.96	29.10
15.3	15.3	29.59	8.09	23.05	21.82
20.0	20.1	29.99	7.82	23.40	13.75
25.2	25.3	30.19	7.68	23.57	9.80
30.0	30.2	30.43	7.53	23.79	10.07
35.1	35.2	30.50	7.49	23.84	5.68*
40.3	40.5	30.59	7.47	23.92	6.56
45.2	45.4	30.69	7.42	24.00	6.96
50.2	50.4	30.73	7.39	24.04	5.31*
60.1	60.3	30.81	7.34	24.11	4.17*
70.2	70.5	30.87	7.31	24.16	3.88*
80.3	80.6	30.93	7.29	24.21	3.66*
90.1	90.5	30.97	7.29	24.24	3.30*
100.3	100.8	31.02	7.32	24.27	2.54*
110.0	110.6	31.04	7.36	24.29	2.46*
120.2	120.8	31.07	7.45	24.30	2.39*
130.0	130.6	31.12	7.59	24.32	2.03*
140.2	140.8	31.14	7.62	24.33	2.16*
150.1	150.8	31.17	7.72	24.34	1.72*
160.3	161.1	31.18	7.74	24.34	1.24*
170.2	171.0	31.18	7.72	24.35	1.44*
180.1	181.0	31.19	7.76	24.35	.93*
190.0	191.0	31.20	7.74	24.36	1.08*
200.2	201.2	31.20	7.74	24.36	.91*
210.0	211.0	31.21	7.73	24.36	.88*
220.2	221.2	31.21	7.72	24.37	1.34*
230.2	231.3	31.20	7.67	24.37	4.95*
240.2	241.4	31.22	7.71	24.37	+
250.1	251.3	31.22	7.71	24.38	+
260.2	261.5	31.22	7.68	24.38	+
270.2	271.5	31.22	7.67	24.38	.83*
280.1	281.5	31.22	7.66	24.38	.66*
290.1	291.6	31.22	7.66	24.39	.48*
300.3	301.7	31.22	7.66	24.39	+
310.1	311.6	31.23	7.68	24.39	.57*
320.3	321.9	31.22	7.67	24.39	.65*
330.1	331.8	31.22	7.66	24.39	.82*
340.2	341.9	31.22	7.64	24.39	.68*
360.2	362.0	31.22	7.65	24.39	.84*
380.2	382.1	31.25	7.79	24.39	+
400.2	402.1	31.25	7.80	24.39	+
420.2	422.3	31.26	7.82	24.39	.84*
440.2	442.4	31.26	7.82	24.39	.36*
460.1	462.3	31.26	7.81	24.40	.97*
480.1	482.4	31.27	7.85	24.40	1.20*

MAX DEPTH 488.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 47.90  
 DATE 28/ 9/77  
 TIME (PST) 1313

TAPE CZ0/78/ 3- 22  
 LONG W125 37.00  
 PASS NO. 25  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	7.92	9.67	6.00	16.52
2.2	2.2	11.18	9.38	8.56	78.44
5.1	5.1	24.27	8.90	18.80	75.94
10.3	10.3	28.60	8.35	22.24	30.62
15.2	15.2	29.62	8.08	23.08	14.43
20.1	20.2	29.99	7.90	23.39	10.69
25.2	25.3	30.27	7.70	23.64	10.28
30.2	30.4	30.46	7.58	23.80	7.22
35.2	35.4	30.51	7.58	23.84	5.24*
40.2	40.3	30.60	7.50	23.92	6.74
45.0	45.2	30.67	7.45	23.98	8.98
50.3	50.5	30.76	7.38	24.06	6.09
60.1	60.4	30.82	7.34	24.12	4.27*
70.3	70.6	30.91	7.33	24.19	4.33
80.0	80.4	30.95	7.32	24.22	3.00*
90.0	90.5	30.98	7.31	24.24	3.08*
100.2	100.7	31.02	7.31	24.27	4.01*
110.1	110.6	31.09	7.52	24.30	2.44*
120.1	120.7	31.11	7.60	24.31	1.35*
130.2	130.8	31.12	7.61	24.31	1.34*
140.3	141.0	31.14	7.67	24.32	2.04*
150.3	151.0	31.17	7.77	24.33	2.01*
160.0	160.8	31.18	7.80	24.34	1.77*
170.2	171.0	31.20	7.80	24.35	1.73*
180.2	181.1	31.21	7.80	24.36	1.66*
190.1	191.1	31.21	7.81	24.36	1.46*
200.1	201.1	31.22	7.81	24.36	1.22*
210.2	211.2	31.22	7.81	24.37	1.01*
220.0	221.1	31.22	7.80	24.37	.90*
230.2	231.3	31.22	7.80	24.37	1.02*
240.2	241.4	31.23	7.79	24.37	.90*
250.1	251.3	31.23	7.77	24.38	.61*
260.3	261.6	31.23	7.78	24.38	1.03*
270.0	271.4	31.23	7.77	24.38	1.24*
280.3	281.6	31.24	7.78	24.38	.93*
290.1	291.5	31.24	7.76	24.39	.80*
300.3	301.7	31.25	7.81	24.38	.60*
310.2	311.7	31.25	7.80	24.39	+
320.2	321.8	31.25	7.80	24.39	1.07*
330.1	331.7	31.26	7.84	24.39	1.25*
340.3	342.0	31.26	7.82	24.39	1.12*
360.0	361.8	31.26	7.83	24.39	1.01*
380.1	382.0	31.27	7.86	24.39	.95*
400.3	402.3	31.27	7.86	24.40	+
420.2	422.3	31.27	7.87	24.40	+
440.2	442.4	31.27	7.87	24.40	+
460.3	462.5	31.28	7.88	24.40	+
480.1	482.5	31.28	7.89	24.40	+

MAX DEPTH 493.5



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 41.90  
 DATE 28/ 9/77  
 TIME (PST) 1142

TAPE CZ0/78/ 3- 23  
 LONG W125 43.50  
 PASS NO. 21  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	10.47	9.76	7.97	135.49
2.2	2.2	23.02	9.11	17.79	95.96
5.3	5.3	27.10	8.52	21.05	33.68
10.1	10.1	28.67	8.34	22.30	30.12
15.2	15.2	29.95	8.06	23.34	12.86
20.3	20.3	30.20	7.96	23.55	8.14
25.0	25.1	30.38	7.89	23.70	10.23
30.0	30.2	30.52	7.84	23.81	8.48*
35.1	35.3	30.59	7.74	23.88	6.42*
40.2	40.4	30.62	7.65	23.92	9.42
45.1	45.3	30.72	7.50	24.01	6.95*
50.2	50.4	30.74	7.48	24.03	3.94*
60.1	60.4	30.82	7.47	24.10	4.90
70.1	70.5	30.89	7.48	24.15	4.45*
80.2	80.5	30.94	7.48	24.19	3.84*
90.3	90.7	30.98	7.47	24.22	3.05*
100.0	100.5	31.00	7.40	24.25	2.87*
110.1	110.6	31.03	7.42	24.27	1.77*
120.2	120.8	31.07	7.50	24.29	5.29*
130.1	130.7	31.11	7.60	24.31	4.12
140.1	140.8	31.14	7.67	24.32	2.27*
150.0	150.7	31.19	7.78	24.34	1.50*
160.1	160.8	31.19	7.79	24.35	1.15*
170.1	170.9	31.20	7.80	24.35	1.23*
180.2	181.1	31.20	7.81	24.35	1.53*
190.1	191.0	31.22	7.82	24.36	1.44*
200.3	201.2	31.22	7.82	24.36	1.14*
210.2	211.2	31.23	7.83	24.37	.97*
220.3	221.4	31.24	7.84	24.37	1.12*
230.1	231.2	31.24	7.85	24.37	1.00*
240.3	241.5	31.25	7.85	24.38	.36*
250.1	251.3	31.25	7.85	24.38	.62*
260.0	261.3	31.26	7.86	24.39	1.04*
270.2	271.5	31.26	7.87	24.39	1.13*
280.1	281.5	31.26	7.87	24.39	1.24*
290.3	291.7	31.27	7.88	24.39	.30*
300.0	301.5	31.27	7.88	24.39	+
310.1	311.6	31.27	7.88	24.40	+
320.1	321.7	31.27	7.90	24.39	+
330.1	331.7	31.28	7.90	24.40	+
340.0	341.7	31.28	7.90	24.40	1.26*
360.0	361.8	31.28	7.91	24.40	.64*
380.3	382.1	31.29	7.91	24.40	+
400.1	402.1	31.29	7.92	24.40	+
420.1	422.2	31.31	7.95	24.41	1.90*
440.1	442.3	31.32	7.97	24.42	+

MAX DEPTH 440.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 41.70  
 DATE 28/ 9/77  
 TIME (PST) 1110

TAPE CZ0/78/ 3- 24  
 LONG W125 46.60  
 PASS NO. 19  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	14.46	9.79	11.07	26.60
2.1	2.1	18.58	9.59	14.29	44.11
5.1	5.1	26.97	8.57	20.95	59.69
10.2	10.2	29.89	8.10	23.29	13.82
15.3	15.4	30.11	8.07	23.46	10.40
20.2	20.2	30.32	8.01	23.63	13.19
25.3	25.4	30.60	7.81	23.88	11.86
30.1	30.2	30.69	7.82	23.95	8.31*
35.1	35.2	30.78	7.77	24.02	5.57
40.2	40.4	30.79	7.69	24.04	3.41*
45.3	45.5	30.79	7.66	24.05	2.84*
50.3	50.5	30.80	7.61	24.06	4.40*
60.1	60.4	30.90	7.67	24.14	4.02*
70.1	70.4	30.95	7.66	24.17	4.27
80.2	80.6	30.98	7.61	24.20	3.05*
90.1	90.6	30.99	7.51	24.23	2.66*
100.2	100.6	31.00	7.47	24.24	2.11*
110.2	110.8	31.02	7.46	24.25	2.70*
120.3	120.8	31.06	7.47	24.28	3.15*
130.0	130.7	31.11	7.62	24.31	2.32*
140.1	140.7	31.13	7.67	24.32	2.54*
150.2	151.0	31.14	7.69	24.32	+
160.2	161.0	31.18	7.77	24.34	2.48*
170.3	171.1	31.19	7.80	24.35	1.76*
180.3	181.2	31.20	7.81	24.35	1.57*
190.3	191.3	31.21	7.81	24.36	.95*
200.1	201.1	31.22	7.83	24.36	.92*
210.1	211.2	31.22	7.83	24.36	1.01*
220.2	221.3	31.23	7.84	24.37	1.52*
230.1	231.2	31.23	7.85	24.37	+
240.0	241.2	31.25	7.86	24.38	1.62*
250.1	251.4	31.26	7.87	24.39	1.41*
260.3	261.6	31.27	7.88	24.39	.78*
270.2	271.6	31.27	7.89	24.39	.74*
280.1	281.5	31.27	7.90	24.39	1.45*
290.1	291.5	31.29	7.92	24.41	1.71*
300.2	301.7	31.30	7.94	24.41	+
310.0	311.5	31.30	7.94	24.41	+
320.2	321.8	31.30	7.94	24.41	1.12*
330.2	331.8	31.31	7.94	24.41	1.01*
340.0	341.7	31.30	7.94	24.41	.79*
360.0	361.8	31.33	7.96	24.43	.04*

MAX DEPTH 371.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 41.60  
 DATE 28/ 9/77  
 TIME (PST) 1041

TAPE CZ0/78/ 3- 25  
 LONG W125 49.30  
 PASS NO. 17  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	17.04	9.44	13.11	66.62
2.1	2.1	21.12	9.23	16.31	59.92
5.2	5.2	27.88	8.45	21.67	43.37
10.1	10.1	29.17	8.27	22.70	23.45
15.1	15.1	30.11	8.10	23.46	24.34
20.3	20.4	30.51	8.01	23.78	7.67
25.2	25.3	30.64	7.88	23.90	11.47
30.0	30.1	30.75	7.81	23.99	6.27
35.3	35.4	30.77	7.73	24.03	6.80*
40.1	40.2	30.86	7.71	24.10	5.85
45.3	45.5	30.91	7.71	24.14	4.52*
50.2	50.4	30.93	7.71	24.15	2.63*
60.3	60.5	30.93	7.67	24.16	3.20
70.2	70.5	31.00	7.63	24.22	4.65*
80.1	80.5	31.04	7.55	24.26	2.36*
90.2	90.6	31.06	7.52	24.28	1.27*
100.2	100.6	31.06	7.55	24.28	1.89*
110.2	110.8	31.10	7.65	24.29	2.41*
120.1	120.6	31.11	7.65	24.30	2.63*
130.1	130.7	31.15	7.73	24.32	3.22*
140.1	140.8	31.16	7.76	24.33	1.65*
150.2	150.9	31.18	7.78	24.34	1.47*
160.0	160.8	31.19	7.80	24.34	1.39*
170.2	171.0	31.20	7.81	24.35	1.57*
180.1	181.0	31.21	7.82	24.35	1.30*
190.3	191.2	31.22	7.83	24.36	1.11*
200.3	201.3	31.22	7.83	24.36	.89*
210.1	211.1	31.23	7.83	24.37	.93*
220.1	221.2	31.23	7.84	24.37	.93*
230.1	231.2	31.23	7.84	24.37	1.29*
240.1	241.3	31.24	7.86	24.37	1.47*
250.0	251.3	31.25	7.87	24.38	1.26*
260.1	261.3	31.26	7.88	24.38	1.52*
270.1	271.4	31.27	7.91	24.39	1.52*
280.1	281.5	31.28	7.93	24.39	1.21*
290.1	291.5	31.29	7.94	24.40	1.60*
300.0	301.5	31.30	7.95	24.41	1.80*
310.2	311.7	31.31	7.96	24.42	1.55*
320.1	321.6	31.32	7.96	24.42	1.23*
330.3	331.9	31.32	7.97	24.42	+

MAX DEPTH 336.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 41.10  
 DATE 28/ 9/77  
 TIME (PST) 1012

TAPE CZ0/78/ 3- 26  
 LONG W125 51.90  
 PASS NO. 15  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	21.49	9.19	16.60	106.51
2.0	2.0	26.37	8.70	20.46	47.43
5.2	5.2	29.17	8.27	22.70	47.47
10.0	10.1	29.98	8.11	23.36	24.13
15.2	15.3	30.34	8.03	23.65	13.49
20.1	20.2	30.53	8.01	23.80	5.92
25.0	25.1	30.60	7.82	23.88	9.56
30.2	30.3	30.76	7.66	24.02	4.95
35.3	35.5	30.80	7.63	24.06	6.34
40.2	40.4	30.86	7.68	24.10	5.14*
45.3	45.5	30.91	7.79	24.13	3.99*
50.2	50.4	30.95	7.77	24.16	4.19
60.1	60.4	31.00	7.74	24.20	3.08*
70.2	70.6	31.02	7.75	24.22	1.82*
80.3	80.7	31.04	7.75	24.23	2.03*
90.1	90.6	31.07	7.64	24.27	3.44*
100.2	100.7	31.08	7.62	24.28	2.25*
110.0	110.5	31.10	7.69	24.29	1.59*
120.1	120.7	31.13	7.73	24.31	2.70*
130.0	130.7	31.16	7.77	24.33	2.78*
140.1	140.8	31.18	7.79	24.34	1.73*
150.1	150.9	31.19	7.80	24.34	1.20*
160.2	161.0	31.20	7.82	24.35	1.84*
170.2	171.0	31.21	7.82	24.36	1.43*
180.2	181.1	31.22	7.83	24.36	.99*
190.1	191.0	31.22	7.84	24.36	1.01*
200.3	201.2	31.24	7.85	24.37	1.37*
210.3	211.3	31.24	7.87	24.37	.94*
220.2	221.2	31.24	7.88	24.37	1.58*
230.1	231.2	31.26	7.91	24.38	1.02*
240.3	241.5	31.26	7.94	24.38	1.49*
250.3	251.5	31.28	7.93	24.40	1.51*
260.3	261.5	31.29	7.94	24.40	1.27*
270.2	271.5	31.29	7.94	24.40	.97*
280.2	281.5	31.30	7.95	24.41	1.90*
290.0	291.5	31.31	7.96	24.41	1.68*
300.2	301.6	31.33	7.97	24.42	1.56*
310.0	311.5	31.33	7.97	24.43	.83*
320.2	321.7	31.33	7.97	24.43	.64*

MAX DEPTH 325.2



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 40.70  
 DATE 28/ 9/77  
 TIME (PST) 0947

TAPE CZ0/78/ 3- 27  
 LONG W125 54.40  
 PASS NO. 13  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.46	9.18	18.13	24.19
2.0	2.0	23.42	9.16	18.10	9.98*
5.2	5.2	24.18	9.09	18.70	26.00
10.2	10.3	28.88	8.40	22.46	27.81
15.4	15.4	30.12	8.06	23.47	15.31
20.1	20.2	30.46	8.00	23.74	10.31
25.2	25.3	30.62	7.95	23.88	7.80
30.2	30.4	30.66	7.86	23.92	7.35
35.3	35.4	30.74	7.80	23.99	6.78
40.2	40.4	30.81	7.85	24.04	6.07*
45.1	45.3	30.88	7.81	24.10	6.41
50.0	50.3	30.95	7.83	24.15	5.87*
60.2	60.5	31.01	7.93	24.18	4.68
70.0	70.4	31.10	7.89	24.26	3.48*
80.3	80.6	31.08	7.88	24.24	4.82
90.1	90.5	31.08	7.83	24.25	3.28*
100.2	100.6	31.12	7.90	24.27	2.48*
110.2	110.7	31.15	7.90	24.30	2.43*
120.2	120.8	31.16	7.82	24.32	1.81*
130.1	130.7	31.17	7.78	24.33	2.38*
140.1	140.8	31.20	7.82	24.35	1.86*
150.3	151.1	31.22	7.83	24.36	1.43*
160.2	161.0	31.23	7.91	24.35	1.07*
170.1	171.0	31.25	7.92	24.37	1.38*
180.2	181.1	31.26	7.93	24.38	.97*
190.1	191.0	31.26	7.93	24.38	1.16*
200.1	201.1	31.26	7.93	24.38	1.26*
210.1	211.1	31.26	7.93	24.38	+
220.1	221.1	31.26	7.94	24.38	1.51*
230.2	231.4	31.27	7.94	24.39	1.07*
240.3	241.5	31.28	7.95	24.39	.89*
250.2	251.5	31.28	7.95	24.39	.93*
260.1	261.4	31.29	7.95	24.40	.79*
270.0	271.4	31.29	7.95	24.40	1.04*
280.3	281.7	31.29	7.96	24.40	.72*
290.1	291.5	31.30	7.96	24.40	.83*
300.3	301.8	31.30	7.96	24.40	2.10*
310.1	311.6	31.33	7.97	24.42	1.91*
320.0	321.6	31.34	7.97	24.43	1.24*
330.0	331.7	31.34	7.98	24.44	4.07*
340.0	341.7	31.34	7.98	24.44	1.01*
360.1	361.9	31.34	7.98	24.43	+

MAX DEPTH 375.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 28/ 9/77  
 TIME (PST) 0924

TAPE CZ0/78/ 3- 28  
 LONG W125 57.20  
 PASS NO. 11  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	24.89	9.02	19.26	40.32
2.1	2.1	25.87	8.83	20.05	25.95
5.2	5.2	26.34	8.77	20.42	11.29
10.1	10.2	27.96	8.48	21.72	30.89
15.3	15.4	29.71	8.17	23.13	16.16
20.3	20.4	30.22	8.06	23.55	11.27
25.1	25.2	30.41	8.03	23.70	11.11
30.1	30.3	30.68	7.98	23.92	6.52
35.1	35.2	30.84	7.91	24.05	6.31*
40.2	40.4	30.89	7.90	24.10	5.46
45.1	45.3	30.94	7.94	24.13	7.21
50.2	50.5	30.98	7.9	24.16	3.69*
60.1	60.4	31.04	7.94	24.20	6.93*
70.3	70.7	31.06	7.94	24.22	4.24
80.0	80.4	31.07	7.94	24.23	2.45*
90.1	90.5	31.12	7.93	24.27	3.27*
100.3	100.8	31.13	7.93	24.28	1.50*
110.1	110.6	31.14	7.93	24.29	2.27*
120.0	120.6	31.17	7.93	24.31	2.36*
130.1	130.7	31.19	7.93	24.32	2.86
140.0	140.7	31.20	7.93	24.33	2.47*
150.1	150.9	31.22	7.92	24.35	1.72*
160.2	161.0	31.23	7.90	24.36	.89*
170.3	171.1	31.22	7.88	24.35	1.01*
180.2	181.1	31.23	7.88	24.36	1.11
190.2	191.1	31.24	7.88	24.37	1.93*
200.2	201.1	31.23	7.87	24.36	.98*
210.0	211.0	31.24	7.88	24.37	.92*
220.2	221.2	31.23	7.88	24.36	+
230.1	231.2	31.24	7.88	24.37	+
240.1	241.3	31.24	7.89	24.36	+
250.2	251.4	31.25	7.92	24.37	1.17*
260.1	261.4	31.25	7.94	24.37	1.00*
270.3	271.6	31.25	7.94	24.37	.85*
280.0	281.4	31.25	7.94	24.37	+
290.1	291.5	31.25	7.94	24.37	.77*
300.2	301.6	31.25	7.93	24.37	.68*
310.1	311.7	31.26	7.94	24.38	+
320.1	321.7	31.26	7.93	24.37	.94*
330.0	331.7	31.26	7.95	24.38	1.95*
340.1	341.7	31.28	7.95	24.39	+

MAX DEPTH 342.4

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 8 KNIGHT INLET 1977

LAT N50 40.60

DATE 28/ 9/77

TIME (PST) 0910

TAPE CZ0/78/ 3- 29

LONG W125 59.50

PASS NO. 9

STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	26.06	8.80	20.20	2.40
2.0	2.0	26.14	8.80	20.26	13.87
5.2	5.2	26.41	8.75	20.48	6.09
10.2	10.2	27.41	8.60	21.28	35.32
15.2	15.3	29.50	8.22	22.96	16.92
20.3	20.4	29.75	8.17	23.17	9.58
25.2	25.3	29.77	8.16	23.18	25.30
30.3	30.4	30.43	8.03	23.71	12.46*
35.3	35.5	30.53	8.00	23.80	7.53
40.1	40.2	30.63	7.97	23.88	6.29
45.1	45.3	30.77	7.92	24.00	10.68
50.1	50.3	30.90	7.91	24.10	5.06*
60.2	60.5	30.99	7.90	24.17	4.64*
70.1	70.4	31.03	7.89	24.20	4.43
80.1	80.5	31.12	7.90	24.27	+
MAX DEPTH	84.8				

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 39.90  
 DATE 28/ 9/77  
 TIME (PST) 0841

TAPE CZ0/78/ 3- 30  
 LONG W126 4.20  
 PASS NO. 7  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	26.14	9.01	20.23	16.28
2.2	2.2	26.49	8.94	20.52	37.50
5.3	5.3	28.41	8.68	22.05	37.27
10.3	10.4	29.97	8.33	23.31	15.03
15.3	15.4	30.20	8.26	23.51	14.34
20.1	20.2	30.37	8.09	23.66	6.82
25.1	25.3	30.53	8.00	23.79	10.46
30.2	30.4	30.69	7.97	23.93	8.27
35.3	35.4	30.75	7.94	23.98	6.21*
40.3	40.5	30.80	7.92	24.02	4.08
45.0	45.3	30.87	7.92	24.07	4.94*
50.3	50.5	30.90	7.93	24.10	6.08*
60.1	60.4	31.03	7.92	24.20	3.57*
70.3	70.6	31.15	7.91	24.30	6.77
80.2	80.6	31.24	7.92	24.37	2.82*
90.1	90.5	31.24	7.91	24.37	1.90*
100.3	100.8	31.24	7.92	24.36	+
110.2	110.7	31.37	7.97	24.46	7.69*
120.1	120.7	31.62	8.11	24.63	4.76
130.2	130.9	31.70	8.10	24.70	4.05*
140.4	141.1	31.74	8.11	24.73	1.98*
150.2	151.0	31.74	8.10	24.73	1.44*
160.0	160.9	31.76	8.10	24.75	2.21*
170.1	171.0	31.78	8.10	24.76	1.33*
180.1	181.1	31.79	8.10	24.77	2.56*
190.0	191.0	31.78	8.10	24.76	+

MAX DEPTH 197.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 39.20  
 DATE 28/ 9/77  
 TIME (PST) 0759

TAPE CZ0/78/ 3- 31  
 LONG W126 12.50  
 PASS NO. 5  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.84	8.75	21.59	34.08
2.2	2.2	27.76	8.76	21.53	8.71*
5.2	5.3	28.69	8.62	22.27	22.04
10.0	10.1	29.68	8.41	23.08	10.01
15.2	15.2	29.87	8.36	23.23	12.18
20.3	20.4	30.49	8.17	23.74	11.51
25.1	25.2	30.62	8.03	23.86	6.70
30.1	30.2	30.88	7.97	24.08	5.41*
35.1	35.2	30.98	8.01	24.15	5.34*
40.1	40.2	31.01	8.04	24.17	9.97
45.0	45.2	31.08	8.05	24.22	7.60*
50.2	50.4	31.15	8.05	24.28	7.56
60.0	60.3	31.31	8.08	24.40	1.98*
70.3	70.6	31.33	8.09	24.41	2.82*
80.0	80.4	31.45	8.13	24.50	6.08
90.0	90.5	31.59	8.13	24.61	5.87
100.1	100.6	31.71	8.14	24.70	4.44*
110.1	110.7	31.76	8.15	24.74	2.94*
120.1	120.7	31.79	8.15	24.76	1.72*
130.1	130.8	31.79	8.15	24.76	1.63*
140.4	141.1	31.80	8.15	24.77	1.55*
150.0	150.8	31.82	8.15	24.78	.89*
160.2	161.0	31.82	8.15	24.78	1.13*
170.1	171.0	31.82	8.15	24.78	2.13*
180.2	181.2	31.84	8.16	24.80	1.70*
190.2	191.2	31.84	8.16	24.80	1.34*

MAX DEPTH 197.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 38.50  
 DATE 28/ 9/77  
 TIME (PST) 0729

TAPE CZ0/78/ 3- 32  
 LONG W126 17.30  
 PASS NO. 3  
 STN. 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.34	8.95	21.17	+
2.2	2.2	27.64	8.92	21.41	22.91
5.1	5.1	28.66	8.79	22.22	27.99
10.1	10.1	30.01	8.53	23.31	20.89
15.1	15.2	30.41	8.48	23.63	5.69
20.3	20.3	30.51	8.43	23.72	7.24*
25.1	25.2	30.59	8.45	23.78	8.16*
30.1	30.2	30.72	8.40	23.89	8.89*
35.1	35.3	30.85	8.28	24.01	8.74
40.3	40.5	30.93	8.32	24.06	6.58*
45.3	45.5	30.97	8.30	24.10	4.35
50.1	50.3	30.98	8.28	24.11	4.52
60.2	60.5	31.07	8.21	24.19	4.29*
70.1	70.5	31.11	8.22	24.22	3.13*
80.2	80.6	31.19	8.13	24.29	5.00
90.1	90.5	31.31	8.18	24.38	4.16*
100.1	100.6	31.38	8.18	24.43	4.99*
110.1	110.7	31.54	8.17	24.56	5.98*
120.1	120.8	31.63	8.17	24.64	4.83
130.2	130.9	31.70	8.16	24.69	3.29*
140.2	140.9	31.72	8.17	24.71	1.90*
150.0	150.8	31.74	8.16	24.72	1.83*
160.1	161.0	31.75	8.17	24.73	2.40*
170.1	171.0	31.77	8.17	24.75	+
180.1	181.1	31.82	8.16	24.78	2.78*
190.3	191.3	31.85	8.17	24.81	4.03*
200.2	201.2	31.85	8.17	24.81	1.80*
210.3	211.4	31.87	8.17	24.82	1.39*
220.3	221.5	31.88	8.17	24.83	1.19*
230.1	231.3	31.88	8.17	24.83	+
240.1	241.3	31.89	8.17	24.84	+

MAX DEPTH 240.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 8 KNIGHT INLET 1977  
 LAT N50 38.10  
 DATE 28/ 9/77  
 TIME (PST) 0640

TAPE CZ0/78/ 3- 33  
 LONG W126 25.20  
 PASS NO. 1  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	25.21	9.64	19.42	29.11
2.1	2.1	25.84	9.48	19.94	32.01
5.1	5.1	28.30	8.99	21.92	46.87
10.3	10.3	29.66	8.73	23.02	14.65
15.2	15.3	30.29	8.63	23.52	7.18
20.2	20.3	30.52	8.59	23.70	8.57
25.2	25.3	30.72	8.54	23.87	8.41
30.2	30.3	30.87	8.52	23.99	9.06
35.2	35.3	31.10	8.44	24.18	9.74
40.1	40.3	31.17	8.40	24.24	5.35*
45.1	45.3	31.20	8.38	24.27	3.73*
50.0	50.3	31.22	8.37	24.29	3.32*
60.2	60.5	31.25	8.35	24.31	2.69*
70.0	70.4	31.27	8.33	24.33	4.37*
80.2	80.6	31.39	8.27	24.43	5.25
90.1	90.6	31.46	8.22	24.50	4.53*
100.3	100.8	31.55	8.20	24.57	5.85
110.0	110.6	31.55	8.20	24.57	+
120.3	120.9	31.64	8.17	24.64	4.51
130.0	130.7	31.72	8.17	24.70	2.87*
140.0	140.7	31.73	8.17	24.71	1.84*
150.0	150.8	31.78	8.17	24.75	5.47*
160.3	161.1	31.79	8.17	24.76	+
170.0	170.9	31.79	8.17	24.76	.52*
180.1	181.1	31.79	8.17	24.76	+
190.2	191.2	31.79	8.17	24.76	+
200.3	201.4	31.79	8.17	24.76	1.78*
210.2	211.3	31.82	8.17	24.78	5.13*
220.3	221.5	31.85	8.17	24.81	1.50*
230.0	231.3	31.86	8.18	24.81	.63*
240.1	241.4	31.86	8.18	24.81	.41*
250.2	251.5	31.86	8.18	24.81	.41*

MAX DEPTH 251.6

CRUISE NO. 9





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N51 2.30  
 DATE 3/11/77  
 TIME (PST) 2034

TAPE CZ0/78/ 3- 34  
 LONG W125 33.80  
 PASS NO. 33  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.67	5.12	2.18	+
2.0	2.0	4.02	5.58	3.23	104.66
5.2	5.2	25.00	8.39	19.43	74.37
10.3	10.3	29.28	8.12	22.80	26.38
15.3	15.4	29.96	7.70	23.39	12.92
20.0	20.1	30.26	7.53	23.65	11.73
25.0	25.1	30.47	7.47	23.82	7.48
30.0	30.2	30.58	7.45	23.91	6.29
35.1	35.2	30.66	7.42	23.98	7.54
40.2	40.3	30.72	7.37	24.03	6.43
45.3	45.5	30.79	7.34	24.09	5.63
50.0	50.2	30.83	7.31	24.13	4.08*
60.2	60.4	30.90	7.29	24.18	3.60*
70.2	70.5	30.95	7.29	24.22	5.14
80.2	80.6	30.99	7.31	24.25	2.91*
90.1	90.5	31.03	7.34	24.28	2.67*
100.0	100.5	31.05	7.38	24.29	2.39*
110.1	110.7	31.08	7.42	24.30	2.27*
120.2	120.7	31.11	7.49	24.32	1.87*
130.3	130.9	31.12	7.50	24.33	1.44*
140.3	141.0	31.13	7.50	24.34	1.61*
150.0	150.7	31.14	7.49	24.34	1.70*
160.3	161.1	31.14	7.45	24.35	1.52*
170.2	171.0	31.14	7.45	24.35	1.06*
180.2	181.1	31.15	7.46	24.36	1.16*
190.2	191.1	31.16	7.45	24.37	1.31*
200.1	201.0	31.17	7.47	24.37	1.27*
210.1	211.1	31.17	7.45	24.37	1.26*
220.3	221.3	31.16	7.42	24.37	.94*
230.3	231.4	31.16	7.42	24.37	.77*
240.2	241.4	31.17	7.42	24.38	.80*
250.0	251.2	31.17	7.42	24.38	

MAX DEPTH 253.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 58.90  
 DATE 3/11/77  
 TIME (PST) 1956

TAPE CZ0/78/ 3- 35  
 LONG W125 33.20  
 PASS NO. 31  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.43	4.75	1.99	+
2.2	2.1	6.68	5.85	5.32	95.58
5.2	5.2	27.01	8.52	20.98	79.31
10.2	10.2	29.56	7.95	23.04	19.72
15.2	15.3	29.92	7.73	23.36	10.53
20.0	20.1	30.24	7.52	23.64	11.12
25.1	25.3	30.45	7.47	23.81	8.80
30.1	30.2	30.60	7.44	23.93	6.82
35.1	35.2	30.68	7.41	23.99	5.82
40.2	40.4	30.76	7.35	24.07	6.10
45.2	45.4	30.80	7.32	24.10	4.12
50.1	50.3	30.85	7.30	24.14	4.28*
60.0	60.3	30.90	7.29	24.19	4.54*
70.1	70.4	30.95	7.29	24.23	3.48*
80.1	80.5	31.00	7.31	24.26	2.85*
90.2	90.6	31.03	7.34	24.28	2.28*
100.3	100.8	31.05	7.38	24.29	2.36*
110.1	110.7	31.09	7.46	24.31	2.39*
120.1	120.7	31.11	7.49	24.32	1.88*
130.1	130.7	31.13	7.52	24.33	1.48*
140.2	140.8	31.13	7.51	24.34	1.49*
150.2	150.9	31.14	7.51	24.34	3.64
160.0	160.8	31.14	7.51	24.35	2.73
170.2	171.0	31.16	7.49	24.36	1.64*
180.3	181.2	31.16	7.49	24.36	1.46*
190.1	191.0	31.16	7.46	24.37	1.31*
200.0	201.0	31.16	7.45	24.37	.99*
210.1	211.2	31.17	7.45	24.37	1.01*
220.0	221.1	31.17	7.45	24.37	1.05*
230.2	231.4	31.18	7.47	24.38	.59*
240.1	241.3	31.18	7.46	24.38	1.05*
250.3	251.5	31.18	7.50	24.38	1.07*
260.1	261.4	31.19	7.52	24.38	.77*
270.3	271.6	31.20	7.57	24.38	.35*
280.2	281.5	31.21	7.61	24.38	+
290.0	291.4	31.22	7.65	24.38	.88*
300.1	301.6	31.23	7.72	24.38	+
310.2	311.7	31.23	7.72	24.39	.57*
320.1	321.6	31.23	7.69	24.39	

MAX DEPTH 326.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 54.30  
 DATE 3/11/77  
 TIME (PST) 1904

TAPE CZ0/78/ 3- 36  
 LONG W125 32.80  
 PASS NO. 29  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	4.01	5.33	3.23	+
2.1	2.1	7.41	6.11	5.88	84.36
5.1	5.1	27.60	8.24	21.48	65.30
10.1	10.1	29.57	8.08	23.04	20.36
15.1	15.1	30.02	7.77	23.43	14.28
20.3	20.4	30.27	7.58	23.65	9.72
25.2	25.3	30.46	7.51	23.81	9.22
30.2	30.3	30.60	7.45	23.93	6.73
35.1	35.3	30.67	7.42	23.99	5.47
40.1	40.2	30.73	7.39	24.04	5.06
45.2	45.4	30.79	7.34	24.09	6.63*
50.3	50.5	30.82	7.32	24.12	4.29
60.3	60.6	30.88	7.30	24.17	3.81*
70.2	70.6	30.92	7.31	24.20	4.27
80.3	80.6	30.99	7.32	24.25	4.09*
90.2	90.7	31.03	7.38	24.28	2.51*
100.1	100.6	31.06	7.41	24.29	2.14*
110.2	110.7	31.09	7.45	24.31	2.22*
120.1	120.7	31.11	7.51	24.32	1.94*
130.2	130.8	31.13	7.52	24.33	1.39*
140.2	140.9	31.15	7.60	24.34	1.79
150.1	150.8	31.16	7.59	24.35	2.20*
160.2	161.0	31.17	7.63	24.35	1.04*
170.3	171.1	31.18	7.61	24.36	3.10
180.2	181.1	31.18	7.55	24.37	+
190.0	190.9	31.19	7.57	24.37	1.12*
200.1	201.0	31.20	7.61	24.38	1.43*
210.1	211.1	31.20	7.58	24.38	.79*
220.1	221.2	31.21	7.60	24.38	.45*
230.1	231.3	31.21	7.62	24.38	.15*
240.1	241.3	31.21	7.63	24.38	.64*
250.3	251.5	31.22	7.68	24.39	.72*
260.3	261.5	31.23	7.69	24.39	.83*
270.2	271.6	31.23	7.69	24.39	.81*
280.0	281.4	31.23	7.72	24.39	.80*
290.2	291.7	31.24	7.74	24.39	.81*
300.1	301.6	31.24	7.76	24.39	+
310.0	311.5	31.25	7.79	24.39	.68*
320.2	321.8	31.25	7.79	24.39	.71*
330.2	331.8	31.25	7.81	24.39	.74*
340.2	341.9	31.26	7.84	24.39	.58*
360.2	362.0	31.26	7.84	24.39	.43*
380.2	382.0	31.26	7.84	24.39	.69*
400.1	402.1	31.28	7.90	24.40	.63*

MAX DEPTH 414.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 52.40  
 DATE 3/11/77  
 TIME (PST) 1808

TAPE CZ0/78/ 3- 37  
 LONG W125 38.50  
 PASS NO. 27  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	10.00	6.56	7.89	63.26
2.0	2.0	15.34	7.21	12.03	74.94
5.1	5.1	24.24	7.87	18.90	79.52
10.1	10.2	29.54	8.05	23.01	22.37
15.1	15.1	30.05	7.79	23.45	13.38
20.2	20.2	30.29	7.64	23.66	9.85
25.1	25.2	30.49	7.52	23.83	10.73
30.1	30.3	30.64	7.44	23.96	7.79
35.2	35.3	30.72	7.40	24.03	4.21
40.1	40.3	30.78	7.36	24.08	5.96
45.1	45.3	30.83	7.33	24.12	5.09*
50.2	50.5	30.87	7.33	24.16	4.56
60.2	60.5	30.94	7.31	24.21	4.38*
70.3	70.6	30.99	7.33	24.25	3.28*
80.0	80.4	31.04	7.38	24.28	2.83*
90.1	90.5	31.07	7.43	24.30	2.23*
100.4	100.9	31.09	7.51	24.31	3.88
110.0	110.6	31.12	7.55	24.32	1.34*
120.1	120.6	31.12	7.58	24.32	2.74
130.2	130.8	31.15	7.61	24.33	1.82*
140.1	140.8	31.17	7.66	24.34	1.20*
150.2	150.9	31.18	7.66	24.35	1.48*
160.0	160.8	31.17	7.62	24.35	1.75*
170.3	171.1	31.18	7.60	24.36	1.23*
180.1	181.0	31.19	7.61	24.37	1.44*
190.2	191.1	31.20	7.62	24.37	.98*
200.2	201.2	31.21	7.64	24.38	1.34*
210.1	211.2	31.21	7.64	24.38	.72*
220.2	221.3	31.21	7.63	24.38	1.08*
230.2	231.3	31.21	7.63	24.38	.61*
240.2	241.4	31.21	7.64	24.38	1.04*
250.2	251.4	31.24	7.77	24.39	.08*
260.1	261.4	31.25	7.82	24.39	.71*
270.1	271.4	31.25	7.82	24.39	.45*
280.2	281.6	31.26	7.83	24.39	1.04*
290.3	291.7	31.25	7.84	24.39	.76*
300.2	301.6	31.26	7.85	24.39	.45*
310.0	311.6	31.27	7.86	24.40	.39*
320.2	321.8	31.26	7.87	24.39	.41*
330.1	331.7	31.27	7.86	24.39	.84*
340.1	341.8	31.27	7.86	24.39	.71*
360.1	361.8	31.27	7.88	24.39	.84*
380.1	382.0	31.27	7.88	24.39	.92*
400.0	402.0	31.27	7.89	24.39	.90*
420.0	422.1	31.27	7.89	24.39	.70*
440.1	442.2	31.27	7.89	24.39	.82*
460.0	462.3	31.28	7.91	24.40	1.70*
480.1	482.5	31.29	7.94	24.40	.95*

MAX DEPTH 486.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 47.90  
 DATE 3/11/77  
 TIME (PST) 1709

TAPE C20/78/ 3- 38  
 LONG W125 37.00  
 PASS NO. 25  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	11.95	6.82	9.41	+
2.1	2.1	12.42	6.91	9.77	57.70
5.0	5.0	21.65	7.51	16.93	82.02
10.1	10.2	29.14	8.03	22.71	20.24
15.3	15.3	30.07	7.84	23.46	18.85
20.2	20.3	30.30	7.73	23.66	9.25
25.1	25.2	30.54	7.55	23.86	8.59
30.2	30.3	30.62	7.52	23.93	7.37*
35.1	35.2	30.72	7.47	24.02	7.45
40.1	40.3	30.79	7.39	24.08	7.77
45.3	45.5	30.83	7.35	24.12	5.10*
50.2	50.4	30.86	7.33	24.15	3.81*
60.1	60.3	30.91	7.34	24.19	3.83*
70.1	70.4	30.96	7.33	24.23	3.58*
80.2	80.6	31.02	7.41	24.26	3.08*
90.3	90.7	31.06	7.46	24.29	2.45*
100.2	100.6	31.08	7.51	24.30	1.75*
110.1	110.6	31.12	7.58	24.32	1.77*
120.0	120.6	31.14	7.63	24.33	1.88*
130.0	130.7	31.16	7.67	24.34	2.07*
140.1	140.8	31.18	7.72	24.34	1.59*
150.3	151.0	31.18	7.70	24.35	1.37*
160.3	161.1	31.19	7.71	24.36	1.58*
170.2	171.0	31.20	7.71	24.36	1.38*
180.2	181.1	31.20	7.70	24.37	1.07*
190.2	191.1	31.21	7.70	24.37	1.39*
200.2	201.2	31.21	7.69	24.38	1.22*
210.2	211.2	31.23	7.72	24.38	.96*
220.1	221.2	31.23	7.72	24.38	.73*
230.1	231.2	31.23	7.73	24.38	.58*
240.2	241.4	31.23	7.74	24.38	.40*
250.2	251.4	31.24	7.76	24.38	.82*
260.0	261.3	31.24	7.79	24.38	.78*
270.3	271.6	31.25	7.81	24.39	.73*
280.1	281.5	31.25	7.82	24.39	.21*
290.1	291.5	31.26	7.84	24.39	.43*
300.1	301.5	31.26	7.86	24.39	.75*
310.0	311.5	31.26	7.86	24.39	.75*
320.3	321.8	31.27	7.87	24.39	.62*
330.2	331.8	31.27	7.90	24.39	.82*
340.0	341.7	31.28	7.90	24.39	.69*
360.1	361.8	31.28	7.92	24.39	.78*
380.1	381.9	31.28	7.92	24.40	.53*
400.0	402.0	31.28	7.94	24.39	.81*
420.2	422.3	31.29	7.95	24.40	+
440.1	442.3	31.30	7.96	24.40	1.22*
460.1	462.3	31.29	7.98	24.39	+
480.0	482.4	31.30	7.98	24.40	.95*

MAX DEPTH 493.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 45.10  
 DATE 3/11/77  
 TIME (PST) 1613

TAPE CZ0/78/ 3- 39  
 LONG W125 41.00  
 PASS NO. 23  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	14.54	6.97	11.42	8.45
2.1	2.1	16.04	7.08	12.59	60.36
5.2	5.2	23.68	7.58	18.50	71.27
10.3	10.3	28.56	7.98	22.26	22.72
15.3	15.4	29.76	7.98	23.20	16.62
20.3	20.4	30.11	7.84	23.49	9.84
25.1	25.2	30.36	7.73	23.70	8.72
30.1	30.2	30.47	7.63	23.80	10.97
35.0	35.2	30.64	7.52	23.95	5.01
40.2	40.3	30.74	7.48	24.03	7.65
45.2	45.4	30.83	7.45	24.11	5.52*
50.2	50.4	30.85	7.41	24.13	3.80*
60.0	60.3	30.90	7.45	24.16	2.26*
70.1	70.4	30.96	7.47	24.21	4.11
80.3	80.6	31.03	7.57	24.25	3.63*
90.0	90.5	31.06	7.60	24.27	5.19*
100.2	100.7	31.07	7.52	24.28	2.32*
110.0	110.5	31.10	7.56	24.30	2.23*
120.3	120.9	31.11	7.60	24.31	2.01*
130.1	130.8	31.14	7.67	24.32	1.85*
140.2	140.9	31.16	7.69	24.33	3.74
150.1	150.9	31.17	7.71	24.34	1.90*
160.0	160.8	31.18	7.73	24.35	1.80*
170.1	170.9	31.19	7.74	24.35	1.32*
180.0	180.9	31.20	7.76	24.36	1.34*
190.2	191.1	31.21	7.77	24.36	1.24*
200.1	201.1	31.22	7.74	24.37	1.18*
210.2	211.2	31.21	7.73	24.37	1.06*
220.1	221.1	31.23	7.77	24.38	.95*
230.2	231.3	31.24	7.80	24.38	1.00*
240.0	241.2	31.24	7.81	24.38	1.00*
250.1	251.4	31.25	7.83	24.38	1.04*
260.2	261.5	31.26	7.84	24.39	1.05*
270.1	271.4	31.26	7.86	24.39	.91*
280.2	281.6	31.27	7.89	24.39	.80*
290.1	291.5	31.27	7.91	24.39	.99*
300.0	301.5	31.28	7.94	24.39	.95*
310.1	311.6	31.28	7.97	24.39	.46*
320.1	321.7	31.28	7.98	24.39	+
330.0	331.7	31.29	7.98	24.39	.25*
340.2	341.8	31.28	7.97	24.39	.89*
360.2	362.0	31.28	7.97	24.39	+
380.2	382.1	31.29	7.96	24.40	+
400.0	402.0	31.29	7.98	24.39	+
420.1	422.1	31.29	7.97	24.40	.82*
440.1	442.2	31.29	7.98	24.39	.66*
460.2	462.5	31.29	7.98	24.40	.78*
480.3	482.6	31.30	7.99	24.40	.88*

MAX DEPTH 493.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 41.90  
 DATE 3/11/77  
 TIME (PST) 1530

TAPE CZ0/78/ 3- 40  
 LONG W125 43.50  
 PASS NO. 21  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	18.99	7.25	14.88	89.93
2.1	2.1	19.34	7.27	15.14	21.49*
5.2	5.3	26.17	7.77	20.43	55.52
10.1	10.1	29.34	7.99	22.87	21.12
15.1	15.1	29.84	7.99	23.26	11.50
20.2	20.2	30.07	7.94	23.45	10.56
25.1	25.2	30.30	7.84	23.64	12.48
30.2	30.4	30.49	7.75	23.80	7.82
35.3	35.5	30.60	7.79	23.89	7.81*
40.0	40.2	30.73	7.73	23.99	7.33
45.2	45.4	30.81	7.69	24.06	6.35
50.1	50.3	30.86	7.71	24.09	5.33
60.1	60.4	30.90	7.56	24.15	6.56
70.2	70.5	30.96	7.51	24.20	3.53*
80.1	80.5	31.00	7.51	24.23	3.44*
90.1	90.6	31.07	7.70	24.26	3.16*
100.2	100.7	31.12	7.75	24.29	6.10*
110.2	110.7	31.13	7.76	24.30	4.79
120.0	120.6	31.16	7.73	24.33	2.27*
130.3	130.9	31.16	7.73	24.33	1.73*
140.1	140.8	31.18	7.75	24.34	1.72*
150.0	150.8	31.19	7.76	24.35	1.16*
160.3	161.1	31.19	7.77	24.35	1.25*
170.0	170.9	31.20	7.77	24.36	1.49*
180.0	180.9	31.22	7.80	24.37	1.71*
190.2	191.1	31.23	7.80	24.37	1.51*
200.1	201.1	31.25	7.86	24.38	1.75*
210.2	211.2	31.26	7.94	24.38	1.33*
220.1	221.1	31.26	7.95	24.38	.60*
230.1	231.3	31.27	7.96	24.38	.59*
240.2	241.4	31.28	7.97	24.39	1.11*
250.1	251.4	31.28	7.98	24.39	1.16*
260.1	261.4	31.28	7.99	24.39	1.07*
270.3	271.6	31.28	8.00	24.38	.44*
280.1	281.5	31.29	8.02	24.39	.76*
290.1	291.5	31.29	8.02	24.39	.84*
300.2	301.7	31.29	8.03	24.39	.78*
310.2	311.8	31.29	8.03	24.39	.75*
320.1	321.7	31.29	8.02	24.39	.60*
330.3	331.9	31.30	8.02	24.39	.48*
340.1	341.8	31.30	8.03	24.39	.68*
360.1	361.8	31.30	8.04	24.40	.80*
380.2	382.0	31.31	8.04	24.40	.53*
400.1	402.0	31.30	8.05	24.40	.79*
420.2	422.3	31.30	8.05	24.40	.61*

MAX DEPTH 431.0



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 41.70  
 DATE 3/11/77  
 TIME (PST) 1458

TAPE CZ0/78/ 3- 41  
 LONG W125 46.60  
 PASS NO. 19  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	20.51	7.37	16.05	+
2.0	2.0	21.46	7.37	16.80	48.59
5.2	5.2	28.76	7.94	22.42	39.75
10.0	10.1	29.39	7.99	22.91	16.80
15.3	15.4	29.78	8.01	23.21	16.69*
20.0	20.1	30.28	8.00	23.60	13.79
25.0	25.1	30.62	8.04	23.86	8.67
30.1	30.3	30.72	7.99	23.95	10.46*
35.1	35.2	30.72	7.93	23.96	4.95*
40.2	40.4	30.80	7.82	24.03	4.91
45.3	45.5	30.86	7.85	24.07	3.47*
50.1	50.4	30.87	7.88	24.08	3.91
60.2	60.5	30.94	7.95	24.13	3.35*
70.0	70.4	31.02	7.97	24.19	5.49*
80.1	80.5	31.07	7.93	24.23	2.50*
90.2	90.7	31.11	7.87	24.27	2.33*
100.0	100.5	31.13	7.83	24.29	2.95*
110.2	110.8	31.15	7.82	24.31	2.53*
120.2	120.8	31.17	7.84	24.32	1.95
130.2	130.9	31.20	7.95	24.33	4.40*
140.0	140.7	31.21	7.95	24.34	1.50*
150.2	150.9	31.21	7.93	24.34	1.06*
160.0	160.8	31.20	7.82	24.35	+
170.1	171.0	31.20	7.81	24.35	1.20*
180.1	181.0	31.23	7.82	24.37	1.06*
190.2	191.1	31.22	7.82	24.36	1.50*
200.1	201.1	31.24	7.84	24.37	1.15*
210.1	211.1	31.24	7.86	24.38	.48*
220.2	221.3	31.25	7.87	24.38	1.14*
230.3	231.4	31.26	7.90	24.38	.66*
240.2	241.4	31.26	7.91	24.38	.70*
250.2	251.4	31.26	7.92	24.38	.66*
260.2	261.4	31.26	7.92	24.38	.97*
270.0	271.3	31.28	7.95	24.39	.69*
280.2	281.6	31.27	7.97	24.38	.44*
290.2	291.6	31.28	7.96	24.39	.70*
300.3	301.7	31.28	7.97	24.39	1.01*
310.2	311.8	31.29	7.99	24.39	.85*
320.2	321.8	31.29	8.00	24.39	.80*
330.1	331.7	31.29	8.01	24.39	.69*
340.2	341.9	31.30	8.04	24.39	.63*
360.2	361.9	31.30	8.05	24.39	+
380.2	382.1	31.30	8.05	24.39	+

MAX DEPTH 383.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 41.60  
 DATE 3/11/77  
 TIME (PST) 1429

TAPE CZ0/78/ 3- 42  
 LONG W125 49.30  
 PASS NO. 17  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	21.14	7.40	16.54	34.84
2.1	2.1	24.77	7.54	19.36	50.50
5.3	5.3	27.85	7.87	21.72	18.65
10.2	10.3	29.58	8.00	23.06	13.49
15.1	15.2	30.27	7.97	23.60	9.34
20.1	20.2	30.46	7.99	23.75	10.47
25.2	25.3	30.63	7.94	23.88	7.50
30.1	30.2	30.68	8.00	23.91	7.89*
35.3	35.4	30.85	8.02	24.04	7.29
40.1	40.3	30.91	7.99	24.10	6.10
45.0	45.3	30.95	8.00	24.12	5.17
50.4	50.6	30.96	8.00	24.14	3.44*
60.2	60.5	31.00	7.98	24.17	2.59*
70.3	70.6	31.04	7.98	24.20	2.54*
80.2	80.6	31.05	7.97	24.21	2.97*
90.2	90.7	31.10	7.97	24.25	2.85*
100.0	100.5	31.14	7.97	24.28	2.45*
110.2	110.7	31.16	7.98	24.29	1.99*
120.1	120.7	31.18	7.97	24.31	2.08*
130.1	130.8	31.18	7.88	24.32	1.50*
140.2	140.9	31.19	7.86	24.33	2.22*
150.0	150.8	31.20	7.84	24.35	.86*
160.2	161.0	31.21	7.85	24.35	.78*
170.1	170.9	31.20	7.84	24.34	1.54*
180.2	181.1	31.22	7.84	24.36	1.32*
190.0	190.9	31.22	7.86	24.36	1.17*
200.0	201.0	31.24	7.90	24.37	1.00*
210.1	211.1	31.25	7.92	24.37	1.45*
220.2	221.3	31.26	7.96	24.38	.70*
230.1	231.3	31.27	7.97	24.38	.80*
240.2	241.4	31.27	7.97	24.38	.97*
250.1	251.4	31.27	7.98	24.38	.95*
260.1	261.4	31.28	7.99	24.38	.57*
270.2	271.6	31.28	8.00	24.38	.95*
280.0	281.4	31.28	8.00	24.38	.84*
290.0	291.5	31.28	8.01	24.38	.91*
300.0	301.5	31.29	8.03	24.39	.92*
310.1	311.7	31.30	8.06	24.39	.97*
320.0	321.6	31.30	8.05	24.39	1.10*
330.1	331.7	31.31	8.07	24.39	+

MAX DEPTH 334.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 41.10  
 DATE 3/11/77  
 TIME (PST) 1358

TAPE CZ0/78/ 3- 43  
 LONG W125 51.90  
 PASS NO. 15  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.10	7.57	18.84	54.37
2.1	2.1	24.28	7.58	18.97	15.75*
5.2	5.2	28.49	7.95	22.21	41.94
10.3	10.3	29.94	7.99	23.34	29.52
15.3	15.4	30.43	8.01	23.72	10.29
20.3	20.4	30.62	8.03	23.86	6.89
25.1	25.3	30.74	7.99	23.96	4.14
30.1	30.2	30.81	7.97	24.02	6.05
35.1	35.3	30.87	7.98	24.07	5.13*
40.0	40.2	30.90	7.99	24.09	6.43
45.1	45.3	30.95	7.99	24.13	7.34*
50.2	50.4	30.98	7.97	24.15	4.04
60.2	60.5	31.03	7.94	24.20	3.72*
70.1	70.4	31.05	7.96	24.21	3.01*
80.3	80.6	31.07	7.97	24.23	2.69*
90.0	90.5	31.12	7.97	24.26	4.39*
100.2	100.7	31.13	7.97	24.27	2.18*
110.0	110.6	31.16	7.95	24.30	2.70*
120.0	120.6	31.18	7.94	24.31	2.47*
130.2	130.8	31.19	7.92	24.33	2.23*
140.1	140.8	31.21	7.93	24.34	1.68*
150.2	151.0	31.21	7.92	24.34	1.53*
160.1	160.9	31.22	7.89	24.35	1.40*
170.2	171.0	31.23	7.90	24.36	1.12*
180.2	181.1	31.25	7.90	24.37	1.04*
190.1	191.0	31.24	7.91	24.37	.89*
200.0	201.0	31.25	7.94	24.37	1.36*
210.1	211.2	31.27	8.00	24.37	1.30*
220.1	221.2	31.27	8.02	24.38	1.11*
230.1	231.2	31.27	8.03	24.38	1.13*
240.0	241.2	31.27	8.00	24.38	1.03*
250.0	251.2	31.27	8.00	24.38	1.46*
260.1	261.4	31.30	8.08	24.39	1.10*
270.1	271.4	31.30	8.09	24.39	.47*
280.1	281.4	31.30	8.09	24.39	.77*
290.1	291.5	31.30	8.10	24.39	.96*
300.1	301.6	31.30	8.10	24.39	.97*
310.0	311.6	31.31	8.10	24.39	.94*
320.1	321.7	31.31	8.10	24.39	1.10*

MAX DEPTH 325.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 40.70  
 DATE 3/11/77  
 TIME (PST) 1312

TAPE CZ0/78/ 3- 44  
 LONG W125 54.40  
 PASS NO. 13  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.19	7.61	18.12	+
2.1	2.1	23.68	7.50	18.51	40.36
5.3	5.3	27.95	7.86	21.80	33.39
10.2	10.3	29.88	8.02	23.29	25.65
15.1	15.2	30.46	8.02	23.74	7.80
20.1	20.2	30.62	7.95	23.88	10.62
25.2	25.3	30.73	7.99	23.95	6.32
30.2	30.4	30.83	7.96	24.04	8.21*
35.0	35.2	30.94	7.98	24.12	6.20
40.4	40.6	30.97	7.94	24.15	5.99
45.2	45.4	30.99	7.97	24.16	4.51*
50.1	50.3	31.02	8.02	24.18	2.95*
60.4	60.6	31.07	8.05	24.21	4.85
70.0	70.4	31.15	8.03	24.28	2.86*
80.2	80.6	31.16	8.06	24.28	1.43*
90.1	90.6	31.17	8.05	24.29	1.88*
100.1	100.6	31.19	8.07	24.30	1.87*
110.3	110.8	31.21	8.07	24.32	2.11*
120.2	120.8	31.23	8.07	24.33	2.33*
130.0	130.7	31.24	8.08	24.34	3.74*
140.2	140.9	31.25	8.08	24.35	.78*
150.1	150.8	31.25	8.08	24.35	1.26*
160.3	161.1	31.26	8.07	24.36	1.80*
170.1	170.9	31.24	8.06	24.35	+
180.1	180.9	31.27	8.08	24.36	1.59*
190.2	191.1	31.28	8.06	24.38	1.16*
200.1	201.1	31.28	8.08	24.37	+
210.1	211.1	31.27	8.08	24.37	.94*
220.0	221.1	31.28	8.08	24.37	1.21*
230.0	231.2	31.29	8.09	24.38	1.16*
240.2	241.4	31.30	8.09	24.38	.90*
250.2	251.4	31.30	8.10	24.38	1.03*

MAX DEPTH 259.0



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 3/11/77  
 TIME (PST) 1240

TAPE CZ0/78/ 3- 45  
 LONG W125 57.20  
 PASS NO. 11  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.42	7.49	18.31	38.32
2.1	2.1	24.05	7.50	18.80	44.47
5.1	5.1	26.65	7.64	20.82	23.43
10.0	10.1	29.86	8.03	23.27	19.94
15.3	15.4	30.47	8.00	23.75	7.37
20.2	20.3	30.55	7.92	23.82	5.86
25.0	25.1	30.72	8.00	23.95	7.04
30.2	30.3	30.75	8.02	23.96	3.86*
35.2	35.3	30.79	8.04	23.99	6.75
40.3	40.5	30.89	8.05	24.07	8.15*
45.3	45.5	31.01	8.05	24.17	6.59*
50.1	50.3	31.02	8.06	24.17	5.35*
60.1	60.4	31.07	8.06	24.21	2.76*
70.0	70.4	31.08	8.06	24.22	3.02
80.2	80.5	31.08	8.05	24.22	+
90.1	90.5	31.17	8.07	24.29	3.79*
100.1	100.5	31.20	8.06	24.31	2.71*
110.3	110.8	31.23	8.06	24.33	2.32*
120.3	120.9	31.24	8.04	24.35	3.53
130.2	130.9	31.25	8.01	24.36	2.11*
140.2	140.9	31.26	8.06	24.36	.46*
150.0	150.7	31.27	8.05	24.36	.46*
160.2	160.9	31.27	8.05	24.37	.83*
170.1	170.9	31.26	7.99	24.37	1.59*
180.1	181.0	31.26	7.97	24.37	1.27*
190.2	191.2	31.26	7.98	24.37	.58*
200.0	201.0	31.27	8.00	24.38	.52*
210.1	211.1	31.28	8.02	24.38	.93*
220.2	221.3	31.27	8.02	24.38	.43*
230.2	231.3	31.28	8.04	24.38	1.34*
240.2	241.4	31.29	8.05	24.38	.55*
250.1	251.3	31.29	8.06	24.38	1.11*
260.2	261.5	31.29	8.08	24.38	.36*
270.0	271.3	31.29	8.08	24.38	.61*
280.1	281.5	31.30	8.08	24.39	.56*
290.2	291.6	31.30	8.08	24.39	.86*
300.2	301.7	31.30	8.08	24.39	.67*
310.1	311.6	31.30	8.08	24.39	1.08*
320.1	321.7	31.30	8.09	24.39	+
330.1	331.7	31.29	8.09	24.38	.48*

MAX DEPTH 339.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 3/11/77  
 TIME (PST) 1215

TAPE CZ0/78/ 3- 46  
 LONG W125 59.50  
 PASS NO. 9  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.56	7.39	18.43	65.42
2.2	2.2	26.55	7.58	20.74	43.76
5.2	5.3	27.49	7.74	21.46	13.43
10.0	10.1	29.21	7.97	22.77	14.39
15.2	15.2	29.69	8.00	23.14	18.43
20.2	20.2	30.23	8.02	23.56	12.28
25.1	25.2	30.40	8.02	23.69	8.38
30.2	30.4	30.64	8.03	23.88	11.01
35.2	35.4	30.97	8.05	24.14	6.92
40.0	40.2	31.02	8.02	24.18	3.64*
45.0	45.3	31.05	8.01	24.20	3.04*
50.1	50.4	31.06	7.99	24.21	2.44*
60.1	60.4	31.08	7.99	24.23	3.20*
70.2	70.5	31.14	8.06	24.27	4.22*
80.2	80.6	31.21	8.08	24.32	
MAX DEPTH	82.1				

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 39.90  
 DATE 3/11/77  
 TIME (PST) 1143

TAPE CZ0/78/ 3- 47  
 LONG W126 4.20  
 PASS NO. 7  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.38	7.63	21.38	32.74
2.2	2.2	27.51	7.66	21.48	27.12
5.1	5.2	28.42	7.83	22.17	39.65
10.3	10.3	29.45	8.09	22.95	11.26
15.2	15.2	29.84	8.15	23.24	13.42
20.0	20.1	30.33	8.15	23.62	13.88
25.1	25.3	30.67	8.13	23.89	11.40
30.1	30.3	30.79	8.15	23.98	6.45
35.2	35.4	30.90	8.06	24.08	9.70
40.2	40.4	31.05	8.04	24.20	7.48
45.2	45.4	31.13	8.08	24.25	4.80
50.3	50.6	31.15	8.06	24.27	4.74*
60.2	60.5	31.26	8.10	24.35	6.51*
70.1	70.5	31.32	8.17	24.39	3.40*
80.1	80.5	31.38	8.24	24.43	4.34*
90.0	90.5	31.45	8.29	24.48	4.27*
100.2	100.7	31.52	8.34	24.52	4.81*
110.1	110.7	31.55	8.35	24.55	2.62*
120.2	120.9	31.58	8.35	24.57	2.37*
130.2	130.8	31.59	8.35	24.57	2.24*
140.2	141.0	31.61	8.35	24.59	1.87*
150.1	150.9	31.61	8.35	24.59	1.66*
160.1	160.9	31.62	8.34	24.60	1.48*
170.0	170.9	31.63	8.33	24.61	1.11*
180.2	181.1	31.63	8.33	24.61	+
190.1	191.1	31.63	8.33	24.61	.95*

MAX DEPTH 198.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 39.20  
 DATE 3/11/77  
 TIME (PST) 0935

TAPE CZ0/78/ 3- 48  
 LONG W126 12.50  
 PASS NO. 5  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.21	7.82	22.01	54.12
2.3	2.3	28.21	7.83	22.01	22.98
5.2	5.2	28.34	7.86	22.10	26.91
10.3	10.3	30.09	8.21	23.43	18.19
15.3	15.3	30.52	8.19	23.77	11.77
20.1	20.2	30.65	8.25	23.86	7.18
25.1	25.2	30.84	8.23	24.01	11.11
30.1	30.2	30.92	8.17	24.08	6.25*
35.1	35.2	30.96	8.15	24.11	4.79*
40.2	40.3	31.01	8.17	24.15	5.35
45.1	45.3	31.04	8.16	24.18	4.85*
50.2	50.4	31.08	8.15	24.21	6.82
60.1	60.4	31.19	8.16	24.29	3.11*
70.0	70.4	31.25	8.15	24.34	3.41
80.2	80.6	31.35	8.30	24.40	5.88
90.0	90.5	31.41	8.35	24.44	3.60*
100.2	100.7	31.48	8.34	24.49	5.66*
110.2	110.7	31.50	8.36	24.51	2.56*
120.1	120.7	31.55	8.37	24.54	2.66*
130.2	130.8	31.56	8.38	24.55	4.44
140.1	140.8	31.60	8.38	24.58	1.90*
150.0	150.8	31.61	8.38	24.59	.93*
160.0	160.9	31.63	8.37	24.60	1.19*
170.0	170.9	31.63	8.37	24.60	.97*
180.2	181.1	31.63	8.37	24.61	.61*
190.2	191.1	31.64	8.37	24.61	1.05*
200.1	201.1	31.64	8.37	24.61	+
210.0	211.1	31.64	8.38	24.62	.94*
220.0	221.2	31.64	8.37	24.62	1.32*
230.1	231.2	31.65	8.37	24.62	+

MAX DEPTH 230.3



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 9 KNIGHT INLET 1977  
 LAT N50 38.10  
 DATE 3/11/77  
 TIME (PST) 0750

TAPE CZ0/78/ 3- 49  
 LONG W126 25.20  
 PASS NO. 1  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	1.54	7.80	1.17	206.93
2.0	2.0	28.74	7.88	22.42	79.10
5.1	5.2	29.04	7.99	22.63	15.05
10.3	10.3	29.74	8.18	23.16	17.03
15.1	15.2	30.21	8.23	23.51	5.77
20.0	20.1	30.25	8.24	23.54	5.63
25.2	25.3	30.43	8.25	23.69	14.82
30.1	30.2	30.81	8.30	23.97	5.53*
35.2	35.4	30.92	8.31	24.06	6.11*
40.1	40.3	30.95	8.32	24.08	4.43*
45.1	45.3	30.97	8.32	24.10	2.71*
50.1	50.3	31.00	8.32	24.12	4.11
60.1	60.3	31.11	8.34	24.20	6.41
70.2	70.5	31.17	8.35	24.25	3.95*
80.0	80.4	31.28	8.35	24.33	4.04
90.3	90.7	31.37	8.35	24.40	3.53*
100.2	100.7	31.42	8.35	24.44	3.15*
110.1	110.7	31.45	8.35	24.47	3.24
120.2	120.8	31.53	8.36	24.53	3.83*
130.0	130.7	31.56	8.36	24.55	4.01*
140.0	140.7	31.57	8.37	24.56	2.05*
150.1	150.9	31.60	8.37	24.58	1.69*
160.1	160.9	31.61	8.38	24.58	1.58*
170.2	171.1	31.62	8.39	24.60	1.54*
180.1	181.1	31.63	8.38	24.60	1.22*
190.2	191.2	31.62	8.39	24.60	1.06*
200.2	201.2	31.63	8.39	24.60	.98*
210.2	211.3	31.63	8.39	24.60	1.22*
220.0	221.2	31.64	8.39	24.61	1.09*
230.2	231.4	31.64	8.39	24.61	1.06*
240.0	241.3	31.64	8.39	24.61	1.05*

MAX DEPTH 243.0

CRUISE NO. 10



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N51 2.30  
 DATE 8/12/77  
 TIME (PST) 1257

TAPE CZ0/78/ 3- 50  
 LONG W125 33.80  
 PASS NO. 1  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.24	6.32	23.79	2.66*
2.1	2.1	30.26	6.30	23.81	1.06*
5.1	5.1	30.27	6.37	23.80	2.66*
10.0	10.1	30.29	6.44	23.81	2.67*
15.3	15.4	30.34	6.45	23.85	2.67*
20.2	20.3	30.39	6.72	23.86	4.21*
25.1	25.2	30.58	7.22	23.94	5.83*
30.0	30.2	30.60	7.41	23.93	4.55*
35.0	35.2	30.63	7.47	23.95	3.25*
40.2	40.4	30.66	7.48	23.97	3.61*
45.1	45.3	30.70	7.48	24.00	4.04*
50.0	50.2	30.73	7.48	24.02	3.48*
60.1	60.4	30.74	7.47	24.04	3.49*
70.1	70.4	30.81	7.40	24.10	3.68*
80.2	80.6	30.84	7.37	24.13	4.50
90.0	90.4	30.88	7.32	24.16	2.57*
100.2	100.6	30.90	7.31	24.18	2.75*
110.1	110.7	30.92	7.31	24.20	2.84*
120.2	120.7	30.98	7.32	24.24	2.94*
130.2	130.8	31.00	7.34	24.26	2.32*
140.2	140.8	31.02	7.35	24.27	2.40*
150.2	150.9	31.06	7.39	24.30	2.34*
160.1	160.9	31.08	7.43	24.31	2.15*
170.3	171.1	31.10	7.46	24.32	1.85*
180.1	181.0	31.12	7.47	24.33	1.58*
190.1	191.0	31.14	7.47	24.35	2.24*
200.1	201.1	31.15	7.49	24.36	1.82*
210.1	211.1	31.16	7.47	24.36	1.37*
220.2	221.3	31.16	7.47	24.37	1.12*
230.1	231.2	31.17	7.46	24.37	1.27*
240.1	241.3	31.17	7.46	24.38	1.34*
250.1	251.3	31.18	7.46	24.38	

MAX DEPTH 256.7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 58.90  
 DATE 8/12/77  
 TIME (PST) 1332

TAPE CZ0/78/ 3- 51  
 LONG W125 33.20  
 PASS NO. 3  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.10	6.20	23.69	+
2.1	2.1	30.16	6.18	23.74	.88*
5.1	5.1	30.05	6.19	23.66	2.12
10.2	10.3	30.17	6.34	23.74	6.24
15.1	15.1	30.22	6.36	23.77	6.11*
20.1	20.2	30.23	6.38	23.78	3.12
25.1	25.3	30.20	6.39	23.75	8.95
30.0	30.1	30.28	6.42	23.81	8.88
35.1	35.2	30.52	7.00	23.92	7.03*
40.2	40.4	30.66	7.47	23.97	5.32
45.1	45.3	30.73	7.67	24.00	6.86
50.2	50.4	30.75	7.71	24.01	3.69*
60.1	60.4	30.78	7.72	24.03	2.51*
70.0	70.4	30.80	7.63	24.06	4.37*
80.1	80.5	30.85	7.52	24.12	2.92*
90.1	90.5	30.86	7.40	24.14	3.78*
100.1	100.6	30.89	7.35	24.17	2.95*
110.2	110.7	30.92	7.30	24.20	2.91*
120.1	120.7	30.96	7.30	24.23	3.89*
130.0	130.7	30.98	7.31	24.25	2.70*
140.1	140.8	31.02	7.34	24.27	2.97*
150.0	150.8	31.06	7.40	24.30	2.99*
160.2	160.9	31.10	7.46	24.32	2.31*
170.1	170.9	31.12	7.49	24.33	1.56*
180.1	181.0	31.13	7.50	24.34	1.28*
190.0	191.0	31.13	7.50	24.34	1.18*
200.1	201.1	31.14	7.51	24.34	1.40*
210.0	211.0	31.15	7.49	24.35	1.67*
220.0	221.1	31.16	7.49	24.36	1.70*
230.2	231.3	31.17	7.47	24.37	1.44*
240.2	241.3	31.17	7.47	24.37	1.15*
250.0	251.3	31.17	7.46	24.37	1.31*
260.1	261.4	31.18	7.46	24.38	1.22*
270.0	271.4	31.18	7.47	24.38	1.01*
280.0	281.4	31.19	7.48	24.39	.93*
290.0	291.5	31.20	7.51	24.39	.89*
300.1	301.6	31.21	7.55	24.39	.78*
310.1	311.6	31.21	7.57	24.39	

MAX DEPTH 315.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 54.30  
 DATE 8/12/77  
 TIME (PST) 1422

TAPE CZ0/78/ 3- 52  
 LONG W125 32.80  
 PASS NO. 5  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.67	5.63	23.42	3.93*
2.1	2.1	29.67	5.63	23.42	4.05*
5.1	5.1	29.66	5.63	23.41	4.22*
10.1	10.2	29.68	5.68	23.42	4.75*
15.2	15.3	29.85	6.09	23.51	5.43*
20.2	20.3	29.93	6.28	23.55	6.33
25.1	25.2	30.09	6.61	23.63	10.37
30.1	30.2	30.46	7.40	23.83	5.37
35.0	35.2	30.54	7.50	23.87	6.66
40.0	40.2	30.66	7.67	23.94	6.43*
45.1	45.3	30.71	7.73	23.98	3.96*
50.2	50.5	30.74	7.76	24.00	5.06
60.2	60.5	30.80	7.79	24.04	3.38*
70.1	70.4	30.84	7.78	24.08	3.00*
80.0	80.4	30.87	7.73	24.10	2.77*
90.0	90.5	30.88	7.67	24.11	2.78*
100.0	100.5	30.91	7.57	24.15	3.04*
110.1	110.6	30.92	7.54	24.17	2.72*
120.1	120.7	30.96	7.47	24.21	2.92*
130.2	130.8	30.97	7.38	24.23	2.20*
140.0	140.7	31.00	7.34	24.25	3.44
150.0	150.8	31.05	7.38	24.29	3.24*
160.1	160.9	31.08	7.43	24.31	2.11*
170.1	171.0	31.10	7.46	24.32	2.03*
180.1	181.0	31.13	7.54	24.33	2.16*
190.0	191.0	31.16	7.59	24.35	1.85*
200.0	201.0	31.17	7.59	24.35	1.60*
210.1	211.1	31.17	7.56	24.36	1.89*
220.1	221.2	31.17	7.52	24.37	.94*
230.1	231.2	31.18	7.52	24.37	1.05*
240.1	241.3	31.18	7.51	24.37	1.16*
250.0	251.3	31.18	7.50	24.38	1.72*
260.1	261.4	31.19	7.52	24.38	1.00*
270.0	271.4	31.19	7.52	24.38	1.10*
280.0	281.4	31.20	7.54	24.39	1.02*
290.2	291.6	31.20	7.56	24.38	1.20*
300.1	301.6	31.21	7.60	24.39	.86*
310.1	311.7	31.22	7.63	24.39	.76*
320.1	321.6	31.23	7.69	24.39	.84*
330.1	331.8	31.23	7.70	24.39	.10*
340.0	341.7	31.24	7.71	24.39	.59*
360.2	361.9	31.24	7.69	24.39	1.03*
380.1	381.9	31.25	7.74	24.39	

MAX DEPTH 380.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 52.40  
 DATE 8/12/77  
 TIME (PST) 1504

TAPE CZ0/78/ 3- 53  
 LONG W125 38.50  
 PASS NO. 7  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.19	5.05	23.10	7.82*
2.0	2.1	29.17	5.01	23.09	6.88*
5.0	5.0	29.19	4.99	23.11	5.46*
10.2	10.2	29.20	5.08	23.11	8.53
15.2	15.3	29.73	5.91	23.43	8.22
20.2	20.3	30.10	6.54	23.65	11.02
25.1	25.2	30.39	7.12	23.81	9.56*
30.1	30.2	30.61	7.60	23.91	7.56
35.2	35.4	30.66	7.66	23.94	10.01
40.2	40.3	30.72	7.71	23.99	3.41*
45.1	45.3	30.73	7.73	23.99	2.79*
50.2	50.4	30.76	7.77	24.01	2.83*
60.2	60.5	30.81	7.8	24.04	3.04*
70.2	70.5	30.85	7.88	24.07	3.10*
80.1	80.4	30.90	7.90	24.10	3.52*
90.2	90.6	30.94	7.85	24.14	3.05*
100.2	100.7	30.94	7.71	24.16	3.01*
110.0	110.6	30.96	7.52	24.20	3.21*
120.1	120.7	30.98	7.39	24.23	2.39*
130.1	130.8	31.00	7.37	24.25	2.23*
140.1	140.8	31.03	7.38	24.27	2.42*
150.1	150.8	31.06	7.42	24.29	2.24*
160.1	160.9	31.08	7.46	24.30	2.54*
170.2	171.0	31.13	7.53	24.33	2.65*
180.1	181.0	31.16	7.62	24.35	1.94*
190.0	191.0	31.17	7.63	24.35	1.57*
200.1	201.1	31.18	7.65	24.35	1.66*
210.0	211.1	31.19	7.63	24.36	1.58*
220.0	221.1	31.19	7.58	24.37	1.24*
230.1	231.2	31.19	7.58	24.38	1.09*
240.0	241.2	31.19	7.58	24.38	1.15*
250.0	251.3	31.20	7.58	24.38	1.06*
260.0	261.3	31.20	7.58	24.38	.89*
270.1	271.4	31.21	7.60	24.38	.98*
280.0	281.4	31.21	7.62	24.38	.96*
290.0	291.5	31.24	7.67	24.40	.98*
300.0	301.5	31.24	7.72	24.39	.98*
310.0	311.6	31.23	7.72	24.39	1.12*
320.1	321.6	31.24	7.75	24.39	1.21*
330.1	331.8	31.25	7.78	24.39	+

MAX DEPTH 331.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 47.90  
 DATE 8/12/77  
 TIME (PST) 1558

TAPE CZ0/78/ 3- 54  
 LONG W125 37.00  
 PASS NO. 9  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.68	4.60	22.74	2.87
2.2	2.2	28.67	4.62	22.74	1.83*
5.2	5.2	28.67	4.63	22.73	4.64
10.1	10.2	28.83	4.83	22.84	6.40
15.0	15.1	28.93	4.95	22.91	5.37
20.2	20.3	29.27	5.56	23.12	10.83
25.2	25.3	29.62	6.08	23.33	20.32
30.2	30.3	30.26	7.15	23.70	7.00*
35.1	35.2	30.53	7.51	23.86	9.21*
40.2	40.3	30.65	7.64	23.95	6.05*
45.0	45.2	30.67	7.66	23.96	2.72*
50.1	50.3	30.71	7.69	23.98	4.47
60.2	60.5	30.77	7.74	24.02	2.95*
70.1	70.4	30.81	7.77	24.05	3.15
80.2	80.6	30.86	7.81	24.08	3.54
90.0	90.4	30.92	7.85	24.12	4.42*
100.0	100.5	30.95	7.86	24.15	2.81*
110.2	110.7	30.98	7.85	24.17	3.07*
120.2	120.7	31.00	7.79	24.19	2.80*
130.1	130.7	31.02	7.75	24.22	3.22*
140.0	140.7	31.04	7.59	24.25	3.15*
150.0	150.7	31.05	7.50	24.28	4.20*
160.0	160.8	31.09	7.50	24.31	3.00*
170.1	170.9	31.13	7.56	24.33	2.42*
180.0	180.9	31.16	7.64	24.34	1.75*
190.0	190.9	31.17	7.66	24.35	1.73*
200.1	201.1	31.19	7.68	24.36	1.68*
210.1	211.1	31.21	7.70	24.37	1.56*
220.1	221.2	31.20	7.66	24.37	1.51*
230.1	231.2	31.21	7.67	24.38	1.02*
240.0	241.2	31.21	7.69	24.38	1.18*
250.1	251.3	31.22	7.71	24.38	1.34*
260.1	261.4	31.23	7.71	24.38	1.12*
270.0	271.4	31.23	7.73	24.39	.99*
280.1	281.5	31.23	7.74	24.38	.88*
290.1	291.5	31.24	7.76	24.39	1.03*
300.1	301.6	31.25	7.78	24.39	1.17*
310.1	311.6	31.26	7.81	24.39	1.18*
320.0	321.6	31.26	7.82	24.39	1.23*
330.1	331.7	31.26	7.84	24.39	1.17*
340.1	341.8	31.27	7.85	24.39	1.02*

MAX DEPTH 346.0



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 45.10  
 DATE 8/12/77  
 TIME (PST) 1657

TAPE CZ0/78/ 3- 55  
 LONG W125 41.00  
 PASS NO. 11  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.47	4.78	22.57	+
2.2	2.2	28.49	4.78	22.58	2.12*
5.2	5.3	28.54	4.76	22.62	5.30
10.1	10.1	28.61	4.73	22.68	10.78
15.2	15.3	29.30	5.38	23.16	16.05*
20.2	20.3	30.14	6.59	23.68	13.20
25.1	25.2	30.53	7.40	23.88	5.45
30.0	30.2	30.61	7.52	23.93	6.75*
35.2	35.4	30.63	7.54	23.94	3.16
40.2	40.4	30.67	7.59	23.96	4.62*
45.0	45.2	30.72	7.66	24.00	4.15*
50.2	50.4	30.75	7.71	24.01	3.42*
60.1	60.4	30.80	7.75	24.04	3.71*
70.2	70.5	30.89	7.82	24.10	3.97*
80.0	80.4	30.93	7.84	24.13	2.94*
90.1	90.5	30.96	7.85	24.15	3.17*
100.1	100.5	31.00	7.81	24.19	3.84*
110.0	110.6	31.04	7.71	24.23	3.57*
120.2	120.7	31.05	7.59	24.26	3.03*
130.0	130.7	31.08	7.57	24.29	2.32*
140.0	140.7	31.09	7.57	24.30	1.71*
150.1	150.9	31.10	7.57	24.31	1.86*
160.1	160.9	31.12	7.59	24.32	1.64*
170.1	171.0	31.14	7.62	24.32	1.93*
180.1	181.0	31.18	7.72	24.35	2.24*
190.1	191.0	31.20	7.78	24.36	1.46*
200.1	201.1	31.21	7.79	24.36	1.60*
210.1	211.1	31.23	7.78	24.38	1.64*
220.1	221.2	31.23	7.82	24.37	1.40*
230.1	231.2	31.24	7.85	24.38	1.67*
240.1	241.3	31.25	7.85	24.38	1.26*
250.1	251.3	31.25	7.84	24.38	1.06*
260.0	261.3	31.25	7.84	24.38	1.18*
270.0	271.4	31.25	7.83	24.38	.99*

MAX DEPTH 279.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLLT 1977  
 LAT N50 41.90  
 DATE 8/12/77  
 TIME (PST) 1833

TAPE CZ0/78/ 3- 56  
 LONG W125 43.50  
 PASS NO. 13  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.97	5.43	22.89	52.09*
2.1	2.1	28.98	5.43	22.90	37.95*
5.1	5.1	28.98	5.44	22.90	16.72*
10.2	10.3	28.99	5.45	22.90	3.33
15.2	15.3	29.00	5.53	22.90	6.28*
20.2	20.3	29.08	5.59	22.96	8.27*
25.0	25.1	29.24	5.80	23.06	10.25*
30.2	30.3	29.41	5.95	23.18	13.04
35.0	35.2	30.16	6.89	23.66	19.35
40.2	40.3	30.33	7.11	23.76	9.62*
45.0	45.2	30.44	7.29	23.82	6.17*
50.1	50.3	30.46	7.33	23.83	4.40*
60.2	60.5	30.56	7.45	23.90	3.08*
70.1	70.4	30.69	7.65	23.97	5.79
80.1	80.5	30.78	7.74	24.03	3.74*
90.2	90.6	30.85	7.80	24.08	2.41*
100.2	100.6	30.90	7.82	24.11	3.26*
110.2	110.7	30.93	7.84	24.13	1.97*
120.0	120.6	30.93	7.84	24.13	3.32
130.2	130.8	31.00	7.83	24.19	3.37*
140.1	140.7	31.02	7.80	24.21	3.13*
150.2	150.9	31.06	7.79	24.24	3.14*
160.2	160.9	31.09	7.78	24.26	4.09*
170.2	171.0	31.14	7.76	24.31	2.47*
180.2	181.0	31.17	7.79	24.33	3.26*
190.1	191.0	31.19	7.81	24.34	1.91*
200.2	201.1	31.21	7.83	24.35	1.51*
210.0	211.1	31.22	7.84	24.36	1.32*
220.1	221.1	31.22	7.83	24.36	1.62*
230.0	231.2	31.24	7.86	24.37	1.12*
240.1	241.3	31.23	7.87	24.37	1.16*
250.1	251.3	31.24	7.89	24.37	1.60*
260.2	261.4	31.26	7.90	24.38	1.67*
270.1	271.4	31.26	7.91	24.38	.93*
280.1	281.5	31.26	7.91	24.39	.86*
290.1	291.5	31.27	7.91	24.39	+

MAX DEPTH 291.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 41.70  
 DATE 8/12/77  
 TIME (PST) 1904

TAPE CZ0/78/ 3- 57  
 LONG W125 46.60  
 PASS NO. 15  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.03	5.45	22.93	+
2.3	2.3	28.99	5.44	22.91	1.63*
5.3	5.3	28.99	5.40	22.91	4.05
10.0	10.1	29.21	5.72	23.05	12.90
15.1	15.1	29.37	5.90	23.16	8.53*
20.2	20.3	29.53	5.97	23.27	9.33*
25.2	25.3	29.68	6.25	23.36	10.58*
30.3	30.4	30.08	6.80	23.60	11.97
35.2	35.4	30.26	7.03	23.72	14.24
40.1	40.3	30.46	7.28	23.84	4.68*
45.2	45.4	30.53	7.35	23.88	4.50*
50.3	50.5	30.55	7.40	23.90	3.44*
60.1	60.3	30.63	7.48	23.95	3.90*
70.2	70.5	30.71	7.59	24.00	4.97*
80.0	80.4	30.85	7.73	24.09	2.68*
90.2	90.6	30.85	7.76	24.09	.93*
100.2	100.7	30.89	7.78	24.11	6.67
110.0	110.5	30.99	7.85	24.18	2.99*
120.2	120.8	31.04	7.84	24.22	1.18*
130.1	130.8	31.05	7.83	24.23	2.56*
140.0	140.7	31.06	7.80	24.24	2.18*
150.1	150.8	31.09	7.74	24.27	3.00*
160.2	160.9	31.12	7.72	24.30	3.37*
170.1	170.9	31.13	7.75	24.30	1.98*
180.2	181.1	31.16	7.78	24.32	2.62*
190.2	191.2	31.19	7.81	24.34	2.39*
200.1	201.1	31.21	7.83	24.35	2.15*
210.1	211.2	31.24	7.86	24.37	2.16*
220.1	221.2	31.24	7.88	24.37	1.22*
230.1	231.3	31.25	7.88	24.38	1.05*
240.2	241.4	31.26	7.89	24.38	1.31*
250.3	251.5	31.26	7.89	24.39	.86*
260.2	261.5	31.27	7.90	24.39	1.17*
270.2	271.5	31.27	7.90	24.39	.95*
280.2	281.6	31.27	7.90	24.39	1.15*
290.0	291.5	31.28	7.91	24.40	+
300.3	301.7	31.27	7.91	24.39	.66*
310.2	311.8	31.28	7.91	24.40	+
320.1	321.7	31.28	7.91	24.40	.88*
330.0	331.7	31.28	7.91	24.40	1.01*
340.2	341.9	31.28	7.92	24.40	.51*
360.1	361.9	31.29	7.92	24.40	1.02*

MAX DEPTH 370.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 41.60  
 DATE 8/12/77  
 TIME (PST) 1932

TAPE CZ0/78/ 3- 58  
 LONG W125 49.30  
 PASS NO. 17  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.13	5.58	23.00	+
2.0	2.0	29.15	5.57	23.02	.91*
5.1	5.1	29.15	5.58	23.02	1.68
10.2	10.3	29.19	5.60	23.05	17.73
15.1	15.1	29.44	6.01	23.19	17.03
20.2	20.3	29.88	6.46	23.49	15.33
25.1	25.2	30.26	6.96	23.73	14.04
30.0	30.2	30.55	7.34	23.90	7.06
35.1	35.3	30.60	7.41	23.94	5.47*
40.1	40.3	30.70	7.55	23.99	5.44*
45.2	45.4	30.75	7.60	24.03	4.75*
50.1	50.3	30.80	7.66	24.05	3.95*
60.0	60.3	30.83	7.71	24.07	3.21*
70.1	70.5	30.92	7.80	24.13	4.14*
80.1	80.5	30.97	7.84	24.17	3.28*
90.2	90.6	31.02	7.86	24.20	2.97*
100.1	100.6	31.04	7.86	24.21	2.02*
110.1	110.7	31.05	7.85	24.23	3.40
120.1	120.7	31.11	7.80	24.28	3.42*
130.1	130.7	31.14	7.78	24.31	2.01*
140.1	140.8	31.14	7.78	24.31	1.57*
150.1	150.8	31.17	7.78	24.33	1.78*
160.1	160.9	31.17	7.79	24.32	.94*
170.1	171.0	31.18	7.80	24.34	3.23*
180.0	180.9	31.20	7.82	24.35	2.18*
190.1	191.0	31.22	7.87	24.36	1.95*
200.0	201.0	31.24	7.88	24.37	1.31*
210.1	211.1	31.24	7.88	24.37	.90*
220.0	221.1	31.24	7.88	24.37	1.01*
230.0	231.2	31.24	7.89	24.37	1.27*
240.1	241.2	31.25	7.89	24.38	1.23*
250.1	251.3	31.25	7.89	24.38	1.17*
260.1	261.3	31.26	7.90	24.38	1.22*
270.1	271.4	31.26	7.91	24.38	1.13*
280.0	281.4	31.26	7.91	24.38	1.44*
290.1	291.5	31.28	7.91	24.39	1.29*
300.0	301.5	31.27	7.91	24.39	+

MAX DEPTH 300.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 41.10  
 DATE 8/12/77  
 TIME (PST) 2013

TAPE CZ0/78/ 3- 59  
 LONG W125 51.90  
 PASS NO. 19  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.13	5.54	23.01	1.15
2.2	2.2	29.13	5.52	23.01	1.24*
5.1	5.1	29.14	5.52	23.02	3.12
10.1	10.1	29.19	5.65	23.04	5.08
15.3	15.4	29.24	5.77	23.06	12.01*
20.3	20.3	29.98	6.45	23.57	17.25
25.2	25.3	30.65	7.45	23.97	9.98
30.0	30.2	30.69	7.54	23.99	4.09*
35.1	35.2	30.74	7.58	24.02	3.77*
40.2	40.3	30.76	7.61	24.03	3.97*
45.1	45.3	30.78	7.65	24.04	3.74*
50.1	50.3	30.86	7.74	24.09	2.84*
60.1	60.4	30.91	7.79	24.12	5.81*
70.2	70.5	30.96	7.84	24.16	4.26
80.0	80.4	31.00	7.87	24.18	2.66*
90.1	90.5	31.02	7.87	24.20	2.82*
100.0	100.5	31.08	7.82	24.25	4.83
110.1	110.6	31.11	7.80	24.28	2.60*
120.1	120.7	31.14	7.80	24.30	2.29*
130.0	130.7	31.16	7.80	24.32	2.66
140.1	140.8	31.18	7.84	24.33	1.69*
150.0	150.8	31.20	7.87	24.34	1.77*
160.0	160.8	31.22	7.89	24.36	2.27*
170.0	170.8	31.24	7.91	24.36	1.27*
180.0	180.9	31.24	7.91	24.37	1.10*
190.1	191.0	31.24	7.91	24.37	1.28*
200.1	201.1	31.25	7.93	24.37	1.11*
210.1	211.1	31.25	7.93	24.37	1.12*
220.1	221.1	31.26	7.94	24.37	1.09*
230.0	231.1	31.25	7.93	24.37	1.33*
240.0	241.2	31.26	7.92	24.38	1.28*

MAX DEPTH 247.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 40.70  
 DATE 8/12/77  
 TIME (PST) 2049

TAPE CZ0/78/ 3- 60  
 LONG W125 54.40  
 PASS NO. 21  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.53	6.02	23.27	+
2.2	2.2	29.54	6.00	23.28	.12*
5.2	5.2	29.53	5.99	23.27	.28*
10.0	10.1	29.55	5.99	23.29	3.35*
15.1	15.2	29.73	6.07	23.42	6.41*
20.3	20.4	29.70	6.16	23.38	6.61*
25.2	25.3	29.79	6.27	23.44	6.64*
30.2	30.3	29.90	6.42	23.51	13.18
35.0	35.2	30.27	7.00	23.73	6.79
40.2	40.3	30.32	7.08	23.76	5.91*
45.0	45.2	30.38	7.17	23.79	5.74
50.0	50.3	30.51	7.32	23.87	10.08
60.2	60.5	30.67	7.51	23.98	4.04
70.0	70.3	30.73	7.57	24.02	3.57*
80.1	80.5	30.83	7.67	24.08	.81*
90.0	90.4	30.83	7.67	24.08	.82*
100.0	100.5	30.88	7.73	24.11	3.90*
110.0	110.5	30.92	7.78	24.13	1.97*
120.1	120.7	30.97	7.84	24.16	4.15*
130.1	130.7	31.04	7.88	24.21	3.09*
140.1	140.7	31.05	7.88	24.22	3.33*
150.2	150.9	31.12	7.89	24.28	3.12*
160.2	161.0	31.15	7.88	24.30	2.58*
170.1	171.0	31.18	7.87	24.33	2.42*
180.1	180.9	31.21	7.90	24.34	1.66*
190.1	191.1	31.22	7.91	24.35	1.77*
200.2	201.1	31.23	7.92	24.35	.42*
210.1	211.1	31.24	7.93	24.36	1.48*
220.2	221.3	31.24	7.93	24.36	.85*
230.1	231.2	31.25	7.94	24.37	2.08*
240.1	241.3	31.26	7.95	24.38	1.76*
250.1	251.3	31.27	7.95	24.38	.73*
260.0	261.3	31.27	7.95	24.38	.91*
270.1	271.4	31.27	7.95	24.38	.80*
280.0	281.4	31.27	7.95	24.38	.82*
290.1	291.5	31.27	7.95	24.38	.93*
300.1	301.5	31.27	7.94	24.38	.77*
310.0	311.6	31.27	7.94	24.39	.85*
320.1	321.7	31.27	7.94	24.39	.79*
330.0	331.6	31.27	7.94	24.39	.89*
340.1	341.8	31.27	7.94	24.39	.45*
360.0	361.8	31.27	7.95	24.39	.48*
380.2	382.0	31.27	7.95	24.38	.82*

MAX DEPTH 398.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLLT 1977  
 LAT N50 40.60  
 DATE 8/12/77  
 TIME (PST) 2122

TAPE CZ0/78/ 3- 61  
 LONG W125 57.20  
 PASS NO. 23  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.32	5.72	23.13	15.88*
2.1	2.1	29.32	5.70	23.13	1.58
5.1	5.1	29.29	5.69	23.12	12.70*
10.2	10.2	29.35	5.68	23.17	+
15.3	15.3	29.38	5.79	23.18	6.33*
20.0	20.1	29.44	5.80	23.22	5.46
25.1	25.2	29.63	6.07	23.34	6.45
30.1	30.3	29.54	5.98	23.28	+
35.0	35.2	29.87	6.04	23.53	19.76
40.1	40.3	29.70	6.20	23.38	14.96*
45.1	45.3	30.38	7.13	23.80	8.51
50.1	50.3	30.50	7.18	23.88	5.42*
60.1	60.3	30.46	7.25	23.84	4.35*
70.1	70.5	30.68	7.49	23.99	5.89*
80.1	80.4	30.71	7.59	24.00	6.90
90.0	90.4	30.85	7.74	24.08	4.34*
100.0	100.5	30.91	7.82	24.12	4.59*
110.0	110.5	30.98	7.88	24.17	4.84*
120.1	120.6	30.93	7.82	24.13	+
130.1	130.7	31.03	7.90	24.20	4.19*
140.0	140.7	31.05	7.93	24.21	2.74*
150.0	150.7	31.01	7.91	24.19	+
160.1	160.9	31.03	7.94	24.20	2.28*
170.1	170.9	31.05	7.93	24.21	4.84*
180.1	181.0	31.21	7.89	24.34	6.03*
190.0	191.0	31.21	7.89	24.34	+
200.0	201.0	31.22	7.91	24.35	1.83*
210.0	211.1	31.23	7.92	24.36	1.82*
220.1	221.2	31.26	7.93	24.38	1.58*
230.1	231.3	31.26	7.94	24.37	1.23*
240.0	241.2	31.26	7.94	24.38	1.10*
250.0	251.2	31.26	7.95	24.38	.81*
260.1	261.3	31.26	7.95	24.38	.89*
270.2	271.6	31.27	7.95	24.38	.80*

MAX DEPTH 276.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 40.60  
 DATE 8/12/77  
 TIME (PST) 2154

TAPE CZ0/78/ 3- 62  
 LONG W125 59.50  
 PASS NO. 25  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.32	5.76	23.13	4.04
2.1	2.1	29.30	5.79	23.11	4.94
5.3	5.3	29.32	5.75	23.13	6.31*
10.2	10.3	29.53	6.00	23.27	8.76*
15.2	15.3	29.92	6.56	23.51	11.78*
20.0	20.1	30.15	6.94	23.64	13.86
25.1	25.3	30.81	7.67	24.06	11.42
30.2	30.4	30.81	7.68	24.06	+
35.2	35.4	30.84	7.71	24.08	+
40.1	40.3	30.97	7.82	24.17	2.61*
45.0	45.2	31.01	7.91	24.18	1.40*
50.1	50.3	31.03	7.92	24.20	1.01*
60.0	60.3	31.05	7.97	24.21	+

MAX DEPTH 61.6

CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 39.90  
 DATE 8/12/77  
 TIME (PST) 2218

TAPE CZ0/78/ 3- 63  
 LONG W126 4.20  
 PASS NO. 27  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.90	6.48	23.50	4.14
2.0	2.0	29.92	6.41	23.53	4.69
5.2	5.2	29.94	6.43	23.54	7.46
10.1	10.1	30.02	6.56	23.59	5.95*
15.2	15.2	30.11	6.70	23.64	9.50
20.0	20.1	30.48	7.27	23.86	6.23
25.0	25.2	30.58	7.44	23.92	4.51*
30.2	30.4	30.63	7.53	23.94	3.53*
35.2	35.4	30.64	7.55	23.95	3.27*
40.1	40.3	30.66	7.55	23.96	3.56
45.2	45.4	30.78	7.71	24.03	6.29
50.1	50.4	30.85	7.87	24.07	4.07*
60.2	60.5	30.87	7.90	24.08	2.20*
70.1	70.4	30.91	7.97	24.10	5.79*
80.1	80.5	30.95	8.03	24.12	3.53*
90.2	90.6	31.01	8.08	24.16	3.03*
100.1	100.6	31.05	8.14	24.18	1.78*
110.1	110.6	31.05	8.14	24.19	1.41*
120.2	120.8	31.06	8.14	24.19	1.46*
130.1	130.8	31.07	8.15	24.20	4.02
140.0	140.7	31.10	8.17	24.22	.49*
150.2	150.9	31.10	8.16	24.22	1.47*
160.1	160.8	31.11	8.15	24.23	1.54*
170.1	171.0	31.11	8.16	24.23	1.27*
180.0	180.9	31.11	8.11	24.23	1.36*
190.2	191.1	31.12	8.12	24.24	1.86*

MAX DEPTH 199.9



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 39.20  
 DATE 8/12/77  
 TIME (PST) 2255

TAPE CZ0/78/ 3- 64  
 LONG W126 12.50  
 PASS NO. 29

STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.91	6.37	23.53	10.63*
2.0	2.0	29.93	6.37	23.54	10.06*
5.4	5.4	29.93	6.39	23.54	9.21*
10.1	10.2	29.91	6.39	23.52	+
15.1	15.1	29.95	6.44	23.55	6.39*
20.2	20.3	30.09	6.66	23.63	7.71
25.2	25.3	30.17	6.79	23.68	8.71
30.2	30.3	30.52	7.30	23.89	+
35.0	35.2	30.56	7.40	23.91	4.22*
40.2	40.3	30.58	7.41	23.92	1.99*
45.2	45.4	30.57	7.43	23.91	1.72*
50.1	50.3	30.58	7.44	23.91	2.16*
60.2	60.4	30.63	7.51	23.94	5.93
70.1	70.5	30.77	7.73	24.03	5.00
80.0	80.4	30.83	7.87	24.05	2.26*
90.0	90.4	30.86	7.94	24.06	1.18*
100.2	100.6	30.88	7.97	24.08	2.42*
110.0	110.5	30.91	8.01	24.10	2.83*
120.0	120.6	30.96	8.05	24.12	+
130.1	130.7	30.99	8.10	24.15	1.94*
140.1	140.8	31.00	8.10	24.15	2.55*
150.0	150.7	31.07	8.18	24.19	+
160.0	160.8	31.10	8.19	24.22	2.25*
170.1	170.9	31.11	8.21	24.22	2.04*
180.1	181.0	31.14	8.23	24.24	2.30*

MAX DEPTH 186.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 38.50  
 DATE 8/12/77  
 TIME (PST) 2321

TAPE CZ0/78/ 3- 65  
 LONG W126 17.30  
 PASS NO. 31  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.90	6.27	23.53	4.04*
2.1	2.1	29.87	6.24	23.51	4.20*
5.1	5.1	29.88	6.22	23.52	4.42*
10.2	10.3	29.94	6.32	23.55	4.96
15.1	15.2	29.98	6.37	23.58	5.13*
20.3	20.4	30.00	6.47	23.58	4.55
25.1	25.2	30.13	6.63	23.66	4.91
30.0	30.1	30.22	6.75	23.72	6.43*
35.1	35.3	30.36	6.98	23.80	11.77
40.1	40.3	30.63	7.52	23.94	4.95*
45.1	45.3	30.63	7.51	23.94	1.95*
50.0	50.3	30.65	7.51	23.96	3.27*
60.1	60.4	30.78	7.74	24.03	6.98
70.0	70.3	30.86	7.91	24.07	4.11
80.1	80.5	30.96	8.04	24.13	2.98*
90.2	90.6	30.99	8.07	24.15	2.96*
100.0	100.5	31.03	8.13	24.17	2.32*
110.1	110.6	31.05	8.15	24.18	.77*
120.2	120.8	31.06	8.16	24.19	3.03*
130.0	130.6	31.10	8.17	24.22	1.81*
140.2	140.9	31.11	8.18	24.22	1.17*
150.1	150.8	31.11	8.19	24.22	1.07*
160.1	160.8	31.11	8.19	24.22	+
170.0	170.8	31.11	8.20	24.22	.79*
180.0	180.9	31.11	8.21	24.22	+
190.1	191.0	31.11	8.21	24.22	+
200.2	201.1	31.13	8.22	24.23	+
210.1	211.1	31.13	8.24	24.24	+
220.1	221.2	31.14	8.24	24.24	.91*
230.1	231.1	31.14	8.25	24.24	1.15*
240.1	241.3	31.14	8.26	24.24	+

MAX DEPTH 245.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 10 KNIGHT INLET 1977  
 LAT N50 38.10  
 DATE 8/12/77  
 TIME (PST) 0000

TAPE CZ0/78/ 3- 66  
 LONG W126 25.20  
 PASS NO. 33  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.33	6.84	23.80	.37*
2.3	2.3	30.32	6.85	23.79	.29*
5.3	5.3	30.33	6.88	23.79	+
10.1	10.2	30.32	6.80	23.79	1.46*
15.0	15.1	30.34	6.89	23.80	2.20*
20.2	20.2	30.35	6.91	23.80	2.80*
25.2	25.3	30.35	6.91	23.80	3.41*
30.2	30.4	30.37	6.90	23.82	+
35.1	35.3	30.37	6.92	23.82	4.63*
40.2	40.4	30.50	7.18	23.89	5.33
45.1	45.3	30.50	7.21	23.88	3.04*
50.1	50.3	30.54	7.20	23.91	2.42*
60.1	60.3	30.59	7.33	23.94	4.82
70.1	70.4	30.70	7.48	24.01	3.40
80.2	80.6	30.74	7.55	24.02	2.76*
90.1	90.5	30.76	7.58	24.03	1.54*
100.0	100.5	30.77	7.60	24.04	3.21*
110.2	110.7	30.85	7.77	24.08	2.81*
120.2	120.8	30.91	7.84	24.12	2.24*
130.1	130.7	30.92	7.88	24.12	1.91*
140.2	140.8	30.93	7.91	24.12	.80*
150.1	150.8	30.96	7.96	24.14	2.58*
160.1	160.8	30.98	8.00	24.15	1.95*
170.0	170.8	31.00	8.03	24.16	1.42*
180.1	181.0	31.02	8.08	24.17	1.99*
190.0	190.9	31.03	8.11	24.18	2.04*
200.1	201.1	31.07	8.15	24.19	2.16*
210.1	211.1	31.08	8.18	24.20	1.51*
220.2	221.2	31.09	8.19	24.21	1.58*
230.1	231.2	31.10	8.20	24.21	2.28*
240.1	241.3	31.12	8.24	24.23	+

MAX DEPTH 246.4

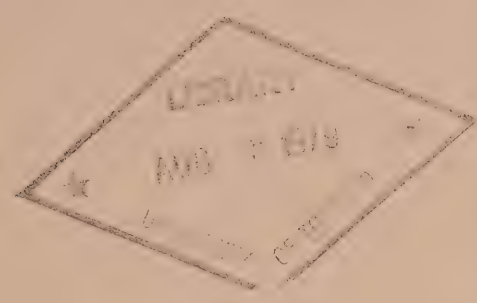




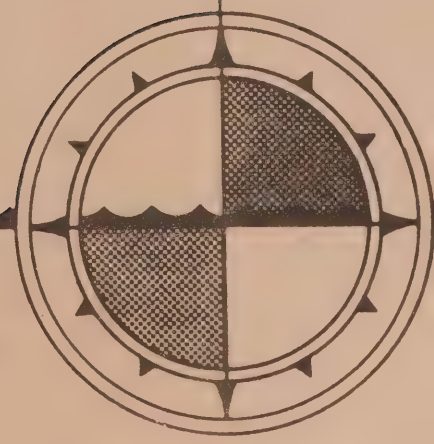


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**OCEANOGRAPHIC OBSERVATIONS  
IN KNIGHT INLET, B.C.  
VOLUME I: Salinity/Temperature Profile  
PART II: 1978**



by  
**Coastal Zone Oceanography Section**



**INSTITUTE OF OCEAN SCIENCES, PATRICIA BAY  
Sidney, B.C.**

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1979



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CRUISE NO. 11





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N51 2.30  
 DATE 18/ 1/78  
 TIME (PST) 1551

TAPE CZ0/78/ 3- 67  
 LONG W125 33.80  
 PASS NO. 21  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.75	6.58	22.59	60.44
2.1	2.1	30.42	6.78	23.88	31.34
5.0	5.1	30.61	6.85	24.02	10.14*
10.2	10.2	30.65	6.99	24.03	2.22*
15.1	15.2	30.69	7.06	24.05	1.78*
20.2	20.3	30.69	7.14	24.04	1.50*
25.1	25.3	30.70	7.17	24.04	2.04*
30.1	30.2	30.71	7.19	24.05	2.46*
35.1	35.2	30.75	7.33	24.06	2.39*
40.3	40.5	30.77	7.40	24.07	2.29*
45.3	45.5	30.78	7.46	24.07	2.01*
50.0	50.3	30.79	7.45	24.07	1.75*
60.1	60.3	30.79	7.44	24.08	1.42*
70.2	70.5	30.81	7.48	24.09	1.71*
80.2	80.5	30.84	7.49	24.11	2.02*
90.2	90.6	30.84	7.52	24.11	2.25
100.2	100.7	30.85	7.52	24.12	3.00*
110.1	110.6	30.86	7.49	24.12	1.41*
120.3	120.9	30.87	7.49	24.14	4.53*
130.3	130.9	30.89	7.52	24.14	4.25
140.1	140.8	30.91	7.50	24.16	1.85*
150.0	150.7	30.92	7.46	24.18	2.62*
160.1	160.8	30.94	7.42	24.19	2.87*
170.2	171.0	30.97	7.41	24.22	2.63*
180.1	180.9	30.99	7.43	24.24	1.91*
190.2	191.1	30.99	7.43	24.24	1.62*
200.1	201.0	31.02	7.44	24.26	2.49*
210.0	211.1	31.03	7.44	24.26	1.56*
220.3	221.4	31.04	7.45	24.27	
230.0	231.1	31.06	7.46	24.29	

MAX DEPTH 231.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 58.90  
 DATE 18/ 1/78  
 TIME (PST) 1626

TAPE CZ0/78/ 3- 68  
 LONG W125 33.20  
 PASS NO. 23  
 STN: 2 - KN 10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.97	6.46	23.56	41.93*
2.2	2.2	30.32	6.62	23.82	32.65*
5.0	5.1	30.54	6.78	23.97	18.73*
10.3	10.4	30.62	6.92	24.01	6.76*
15.3	15.4	30.67	7.06	24.04	3.55*
20.1	20.2	30.69	7.12	24.04	2.05*
25.1	25.2	30.71	7.17	24.05	2.04*
30.1	30.2	30.72	7.20	24.05	2.00*
35.2	35.3	30.73	7.27	24.05	1.95*
40.2	40.4	30.75	7.33	24.06	1.75*
45.2	45.4	30.74	7.32	24.06	1.44*
50.1	50.3	30.75	7.29	24.06	1.45*
60.3	60.6	30.75	7.29	24.07	1.87*
70.1	70.4	30.78	7.36	24.08	3.08
80.2	80.6	30.80	7.44	24.09	1.89*
90.0	90.4	30.81	7.34	24.11	1.93*
100.1	100.6	30.82	7.37	24.11	.76*
110.0	110.6	30.81	7.36	24.10	.49*
120.3	120.9	30.82	7.27	24.13	2.05
130.1	130.7	30.83	7.27	24.13	1.87*
140.3	141.0	30.85	7.28	24.15	3.45*
150.2	150.9	30.87	7.39	24.15	2.76*
160.1	160.8	30.92	7.47	24.18	2.89*
170.2	171.1	30.95	7.44	24.20	2.86*
180.0	180.9	30.96	7.39	24.22	2.27*
190.1	191.0	30.98	7.39	24.23	3.03*
200.1	201.1	31.03	7.40	24.27	2.69*
210.2	211.2	31.04	7.41	24.28	3.05*
220.1	221.2	31.09	7.44	24.31	2.25*
230.2	231.3	31.10	7.46	24.32	3.76*
240.3	241.5	31.13	7.48	24.34	1.90*
250.0	251.3	31.14	7.48	24.34	1.59*
260.1	261.4	31.14	7.49	24.35	1.57*
270.2	271.6	31.16	7.49	24.36	1.54*
280.1	281.5	31.16	7.49	24.36	1.37*
290.0	291.4	31.17	7.49	24.37	1.33*
300.2	301.7	31.18	7.50	24.37	1.48*
310.1	311.6	31.18	7.50	24.38	

MAX DEPTH 317.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 54.30  
 DATE 18/ 1/78  
 TIME (PST) 1713

TAPE CZ0/78/ 3- 69  
 LONG W125 32.80  
 PASS NO. 25  
 STN: 3 - KN 9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.59	5.99	23.32	111.71
2.1	2.1	29.59	5.99	23.31	49.24
5.3	5.3	30.02	5.96	23.66	20.13
10.1	10.1	30.58	6.51	24.03	8.59*
15.1	15.1	30.60	6.66	24.03	+
20.1	20.2	30.61	6.74	24.03	4.02*
25.0	25.1	30.65	6.86	24.05	2.28*
30.0	30.2	30.66	6.95	24.04	1.53*
35.1	35.3	30.70	7.04	24.06	1.14*
40.2	40.4	30.68	7.07	24.04	1.41*
45.2	45.4	30.69	7.07	24.05	+
50.2	50.4	30.65	6.84	24.05	1.97*
60.1	60.3	30.64	6.70	24.05	2.35*
70.2	70.5	30.67	6.75	24.07	7.89
80.2	80.5	30.72	7.07	24.07	+
90.2	90.6	30.76	7.20	24.09	5.94*
100.1	100.5	30.76	7.01	24.11	2.46*
110.2	110.7	30.83	7.29	24.13	1.48*
120.3	120.9	30.84	7.27	24.14	1.35*
130.1	130.8	30.84	7.29	24.14	2.54*
140.1	140.8	30.90	7.43	24.17	2.71*
150.0	150.7	30.93	7.45	24.19	2.75*
160.2	160.9	30.96	7.40	24.22	1.95*
170.0	170.8	30.98	7.41	24.23	2.04*
180.1	181.0	30.99	7.42	24.24	2.00*
190.1	191.0	31.01	7.39	24.26	2.71*
200.1	201.0	31.04	7.41	24.28	2.88*
210.1	211.2	31.09	7.46	24.31	4.22*
220.1	221.1	31.12	7.49	24.33	2.03*
230.1	231.2	31.13	7.50	24.34	2.03*
240.1	241.3	31.15	7.54	24.35	1.70*
250.2	251.4	31.16	7.52	24.35	.92*
260.2	261.5	31.16	7.53	24.35	.75*
270.0	271.3	31.17	7.57	24.36	1.09*
280.0	281.4	31.18	7.61	24.36	1.38*
290.2	291.6	31.19	7.59	24.37	1.65*
300.1	301.5	31.21	7.65	24.38	1.28*
310.2	311.8	31.21	7.65	24.38	.84*
320.2	321.7	31.21	7.65	24.38	.93*
330.1	331.8	31.22	7.66	24.38	.98*
340.0	341.7	31.21	7.66	24.38	.93*
360.1	361.8	31.22	7.67	24.38	.80*
380.1	382.0	31.19	7.52	24.38	1.35*
400.0	402.0	31.21	7.55	24.39	

MAX DEPTH 408.0



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 52.40  
 DATE 18/ 1/78  
 TIME (PST) 1806

TAPE CZ0/78/ 3- 70  
 LONG W125 38.50  
 PASS NO. 28  
 STN: 4 - KN 8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.17	6.19	23.75	10.75
2.1	2.1	30.20	6.23	23.77	8.62
5.0	5.0	30.23	6.25	23.79	7.27*
10.3	10.3	30.39	6.28	23.91	6.72
15.0	15.1	30.41	6.30	23.92	5.27
20.2	20.2	30.50	6.42	23.98	5.59*
25.0	25.1	30.54	6.49	24.01	3.44*
30.2	30.3	30.56	6.52	24.02	2.98*
35.3	35.5	30.59	6.56	24.03	2.59*
40.3	40.5	30.60	6.57	24.04	2.33*
45.2	45.4	30.61	6.59	24.05	2.08*
50.1	50.4	30.62	6.62	24.05	1.82*
60.1	60.4	30.64	6.67	24.06	1.87*
70.0	70.3	30.65	6.69	24.07	2.14*
80.3	80.6	30.68	6.74	24.08	2.49*
90.1	90.5	30.71	6.86	24.09	2.08*
100.1	100.6	30.74	6.90	24.11	2.22*
110.2	110.7	30.74	6.77	24.12	3.90*
120.2	120.8	30.75	6.79	24.13	1.84*
130.2	130.8	30.77	6.83	24.14	1.52*
140.1	140.7	30.78	6.86	24.14	1.09*
150.2	150.9	30.78	6.89	24.14	1.18*
160.2	160.9	30.80	6.94	24.15	2.59*
170.0	170.8	30.89	7.37	24.17	4.24
180.2	181.0	30.94	7.46	24.19	2.67*
190.1	191.1	30.95	7.44	24.21	2.17*
200.2	201.2	30.98	7.46	24.23	2.56*
210.2	211.2	31.01	7.43	24.25	3.43
220.1	221.2	31.04	7.47	24.27	2.90*
230.1	231.3	31.07	7.48	24.29	2.72*
240.1	241.3	31.10	7.49	24.31	2.33*
250.1	251.3	31.13	7.54	24.33	2.22*
260.3	261.5	31.15	7.60	24.34	1.35*
270.1	271.4	31.17	7.63	24.35	.91*
280.3	281.7	31.18	7.65	24.36	1.11*
290.4	291.8	31.18	7.65	24.36	+
300.3	301.8	31.19	7.67	24.36	1.39*
310.2	311.7	31.20	7.68	24.37	1.01*
320.2	321.7	31.22	7.74	24.37	2.39*
330.1	331.7	31.23	7.77	24.38	.49*
340.3	341.9	31.23	7.77	24.38	.53*
360.4	362.2	31.23	7.76	24.38	.79*
380.3	382.2	31.23	7.72	24.38	.84*
400.1	402.1	31.22	7.65	24.38	+
420.0	422.1	31.22	7.66	24.39	+

MAX DEPTH 429.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 47.90  
 DATE 18/ 1/78  
 TIME (PST) 1857

TAPE CZ0/78/ 3- 71  
 LONG W125 37.00  
 PASS NO. 30  
 STN: 5 - KN 7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.45	6.13	23.98	.76
2.2	2.2	30.44	6.11	23.97	1.27*
5.2	5.2	30.45	6.11	23.98	3.20
10.1	10.2	30.52	6.29	24.01	5.64
15.2	15.2	30.55	6.33	24.03	3.60*
20.1	20.2	30.56	6.37	24.04	2.58*
25.1	25.2	30.58	6.40	24.05	1.94*
30.0	30.2	30.59	6.41	24.05	1.43*
35.3	35.4	30.59	6.43	24.05	1.44*
40.2	40.4	30.60	6.45	24.06	1.42*
45.1	45.3	30.61	6.47	24.06	1.22*
50.2	50.5	30.61	6.47	24.06	1.69
60.1	60.4	30.63	6.49	24.07	2.39*
70.2	70.5	30.65	6.56	24.08	2.22*
80.1	80.5	30.69	6.66	24.10	1.22*
90.3	90.7	30.70	6.68	24.11	1.76*
100.2	100.7	30.72	6.75	24.11	1.66*
110.1	110.6	30.75	6.82	24.13	2.98*
120.2	120.8	30.79	6.92	24.15	1.78*
130.2	130.8	30.81	6.96	24.16	2.40*
140.2	140.8	30.84	7.03	24.17	2.35*
150.0	150.7	30.88	7.11	24.19	2.43*
160.2	161.0	30.95	7.31	24.22	2.10*
170.1	170.9	31.00	7.42	24.25	3.13*
180.0	180.9	31.04	7.51	24.26	2.26*
190.1	191.0	31.07	7.53	24.29	2.88*
200.2	201.2	31.10	7.56	24.30	2.33*
210.2	211.2	31.13	7.60	24.32	1.54*
220.1	221.1	31.14	7.61	24.33	1.08*
230.2	231.3	31.15	7.64	24.33	1.39*
240.1	241.3	31.17	7.67	24.34	1.60*
250.3	251.5	31.19	7.70	24.35	1.66*
260.1	261.4	31.20	7.73	24.36	1.65*
270.1	271.4	31.21	7.76	24.36	1.28*
280.1	281.4	31.22	7.78	24.37	1.09*
290.0	291.5	31.22	7.79	24.37	.96*
300.1	301.6	31.22	7.79	24.37	.99*
310.1	311.6	31.23	7.80	24.37	1.25*
320.2	321.8	31.24	7.80	24.38	.73*
330.3	331.9	31.24	7.79	24.38	1.00*
340.2	341.8	31.23	7.78	24.38	1.09*
360.2	362.0	31.24	7.78	24.38	.61*
380.0	381.9	31.24	7.76	24.39	.96*
400.3	402.3	31.24	7.77	24.39	.67*
420.4	422.5	31.25	7.77	24.39	+
440.0	442.2	31.25	7.78	24.39	+

MAX DEPTH 443.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 45.10  
 DATE 18/ 1/78  
 TIME (PST) 1921

TAPE C20/78/ 3- 72  
 LONG W125 41.00  
 PASS NO. 32  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.25	6.02	23.83	5.64*
2.1	2.1	30.26	5.97	23.85	4.39*
5.0	5.0	30.25	5.98	23.83	2.53*
10.2	10.3	30.26	5.98	23.85	1.97*
15.1	15.1	30.27	5.99	23.85	3.19*
20.3	20.4	30.30	6.03	23.87	6.24
25.1	25.2	30.42	6.16	23.95	8.24
30.3	30.4	30.52	6.28	24.01	5.39*
35.1	35.2	30.53	6.28	24.02	1.85*
40.3	40.4	30.53	6.29	24.02	1.74*
45.0	45.2	30.53	6.30	24.02	2.21*
50.2	50.4	30.54	6.32	24.03	3.60*
60.2	60.5	30.63	6.47	24.08	2.81*
70.1	70.4	30.64	6.50	24.08	.80*
80.1	80.4	30.65	6.50	24.09	.73*
90.1	90.5	30.66	6.53	24.09	1.84*
100.0	100.5	30.68	6.57	24.10	2.02*
110.3	110.8	30.70	6.62	24.11	2.13*
120.2	120.8	30.73	6.70	24.13	1.40*
130.0	130.7	30.75	6.74	24.14	3.65*
140.1	140.8	30.75	6.77	24.14	1.54*
150.0	150.7	30.77	6.82	24.15	3.67
160.1	160.9	30.86	7.03	24.18	2.88*
170.0	170.8	30.89	7.13	24.20	2.33*
180.1	181.0	30.96	7.27	24.23	3.27*
190.2	191.2	31.01	7.3 <sub>2</sub>	24.26	4.14
200.1	201.1	31.06	7.47	24.29	1.99*
210.1	211.1	31.10	7.56	24.30	2.73*
220.1	221.2	31.12	7.60	24.32	1.39*
230.0	231.1	31.14	7.64	24.32	1.68*
240.1	241.2	31.17	7.69	24.34	3.00*
250.2	251.4	31.19	7.71	24.35	1.01*
260.2	261.5	31.20	7.74	24.36	1.45*
270.1	271.4	31.21	7.76	24.36	1.26*
280.2	281.6	31.21	7.77	24.36	1.57*
290.1	291.5	31.22	7.77	24.37	1.87
300.1	301.6	31.23	7.78	24.37	1.89*
310.1	311.6	31.23	7.78	24.37	.72*
320.2	321.8	31.23	7.79	24.38	.72*
330.1	331.7	31.24	7.79	24.38	.28*
340.1	341.7	31.24	7.79	24.38	.92*
360.3	362.0	31.24	7.79	24.38	.87*
380.2	382.0	31.24	7.78	24.39	.69*
400.1	402.0	31.25	7.80	24.39	.70*
420.2	422.2	31.25	7.79	24.39	1.08*
440.0	442.2	31.25	7.78	24.39	+
460.4	462.7	31.25	7.78	24.39	+

MAX DEPTH 462.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 41.90  
 DATE 18/ 1/78  
 TIME (PST) 2034

TAPE CZ0/78/ 3- 73  
 LONG W125 43.50  
 PASS NO. 35  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.39	6.09	23.93	1.07*
2.2	2.2	30.39	6.09	23.94	.37*
5.0	5.0	30.40	6.10	23.94	.95*
10.1	10.2	30.40	6.10	23.94	.84*
15.1	15.2	30.40	6.11	23.94	.72*
20.1	20.2	30.40	6.11	23.94	1.64*
25.2	25.3	30.42	6.14	23.96	2.58*
30.2	30.3	30.43	6.15	23.96	2.78*
35.2	35.4	30.44	6.16	23.96	2.94*
40.3	40.5	30.48	6.22	23.99	2.75*
45.2	45.4	30.50	6.25	24.00	2.54*
50.2	50.4	30.52	6.27	24.01	4.00
60.2	60.5	30.58	6.35	24.05	3.09*
70.3	70.6	30.61	6.44	24.07	2.53*
80.0	80.4	30.64	6.48	24.08	2.51*
90.2	90.6	30.66	6.55	24.09	1.40*
100.2	100.7	30.68	6.60	24.10	1.80*
110.2	110.7	30.69	6.62	24.11	1.84*
120.1	120.7	30.71	6.67	24.12	2.05*
130.3	130.9	30.73	6.71	24.13	.99*
140.2	140.9	30.74	6.72	24.13	.85*
150.2	150.9	30.75	6.75	24.14	1.94*
160.0	160.8	30.80	6.88	24.16	2.59*
170.1	170.9	30.82	6.92	24.17	1.29*
180.3	181.1	30.86	7.03	24.18	2.38*
190.1	191.0	30.88	7.06	24.20	2.84*
200.0	201.0	30.91	7.14	24.21	4.76
210.3	211.3	31.04	7.41	24.28	3.27*
220.2	221.3	31.09	7.53	24.30	8.34*
230.2	231.3	31.11	7.57	24.31	1.93*
240.3	241.5	31.15	7.63	24.33	1.23*
250.2	251.4	31.16	7.65	24.34	.88*
260.0	261.3	31.16	7.66	24.34	1.74*
270.3	271.6	31.20	7.71	24.36	1.93*
280.1	281.4	31.21	7.75	24.36	1.39*
290.1	291.5	31.21	7.76	24.36	.97*
300.0	301.5	31.22	7.77	24.37	1.50*
310.2	311.7	31.24	7.79	24.38	1.51*
320.1	321.6	31.24	7.79	24.38	.88*
330.2	331.8	31.24	7.80	24.38	.90*
340.2	341.8	31.25	7.80	24.39	.57*
360.3	362.0	31.25	7.80	24.39	.14*
380.3	382.2	31.24	7.79	24.39	.42*

MAX DEPTH 396.8



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 41.70  
 DATE 18/ 1/78  
 TIME (PST) 2105

TAPE CZ0/78/ 3- 74  
 LONG W125 46.60  
 PASS NO. 37  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.39	6.10	23.93	37.91*
2.3	2.3	30.40	6.10	23.94	27.73*
5.1	5.2	30.40	6.11	23.94	12.45*
10.0	10.1	30.41	6.12	23.94	1.52*
15.2	15.2	30.41	6.12	23.95	1.91*
20.0	20.1	30.42	6.13	23.96	3.20
25.2	25.3	30.44	6.13	23.97	4.33
30.3	30.4	30.44	6.14	23.97	4.10*
35.3	35.4	30.46	6.17	23.98	3.76
40.0	40.2	30.49	6.21	24.00	6.52
45.3	45.5	30.55	6.31	24.04	5.35*
50.0	50.2	30.61	6.41	24.07	3.84*
60.3	60.5	30.67	6.56	24.10	1.17*
70.2	70.5	30.68	6.57	24.10	.92*
80.2	80.5	30.69	6.60	24.11	1.37*
90.1	90.5	30.70	6.62	24.11	1.35*
100.2	100.7	30.71	6.64	24.12	1.07*
110.1	110.7	30.72	6.68	24.12	2.19*
120.3	120.8	30.75	6.74	24.14	2.43*
130.2	130.8	30.79	6.83	24.16	2.44*
140.2	140.8	30.83	6.91	24.18	3.21
150.3	151.0	30.94	7.17	24.23	5.56*
160.1	160.9	31.01	7.33	24.27	2.37*
170.1	170.9	31.03	7.36	24.28	4.20*
180.1	181.0	31.07	7.45	24.30	1.75*
190.3	191.2	31.08	7.48	24.30	1.09*
200.3	201.3	31.09	7.49	24.31	1.29*
210.2	211.2	31.10	7.53	24.31	3.65
220.3	221.4	31.14	7.60	24.33	2.03*
230.3	231.4	31.15	7.62	24.33	1.63*
240.2	241.4	31.17	7.67	24.35	1.75*
250.1	251.3	31.19	7.71	24.36	1.52*
260.2	261.5	31.21	7.73	24.36	1.41*
270.1	271.5	31.22	7.75	24.37	1.51*
280.1	281.5	31.22	7.76	24.37	1.28*
290.3	291.8	31.23	7.77	24.38	.98*
300.1	301.6	31.23	7.78	24.38	.61*
310.1	311.6	31.23	7.78	24.38	.50*
320.0	321.6	31.24	7.78	24.38	.61*
330.3	331.9	31.24	7.79	24.38	.52*
340.3	341.9	31.24	7.79	24.38	.64*
360.1	361.8	31.24	7.79	24.38	+

MAX DEPTH 374.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 41.60  
 DATE 18/ 1/78  
 TIME (PST) 2139

TAPE CZ0/78/ 3- 75  
 LONG W125 49.30  
 PASS NO. 39  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.46	6.16	23.98	109.29*
2.1	2.1	30.47	6.17	23.99	78.78*
5.0	5.1	30.47	6.17	23.99	33.01*
10.2	10.2	30.49	6.19	24.00	2.18*
15.1	15.2	30.49	6.20	24.00	1.87*
20.1	20.2	30.50	6.21	24.01	1.70*
25.0	25.2	30.51	6.22	24.01	1.64*
30.1	30.2	30.51	6.24	24.02	1.77*
35.2	35.4	30.53	6.26	24.02	2.04*
40.1	40.3	30.54	6.28	24.03	1.75*
45.1	45.3	30.53	6.28	24.03	1.09*
50.1	50.3	30.54	6.30	24.03	.64*
60.1	60.4	30.55	6.28	24.04	1.12*
70.0	70.4	30.58	6.36	24.05	4.16
80.2	80.6	30.64	6.47	24.08	2.99*
90.1	90.5	30.69	6.59	24.11	2.17*
100.1	100.5	30.70	6.63	24.11	1.04*
110.1	110.6	30.70	6.64	24.11	1.03*
120.3	120.9	30.73	6.69	24.13	1.95*
130.2	130.8	30.74	6.72	24.13	1.62*
140.2	140.9	30.77	6.80	24.15	2.16
150.1	150.8	30.82	6.89	24.18	4.03*
160.2	161.0	30.87	7.01	24.20	2.46*
170.2	171.0	30.91	7.09	24.21	4.20*

MAX DEPTH 171.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 41.10  
 DATE 18/ 1/78  
 TIME (PST) 2202

TAPE CZ0/78/ 3- 76  
 LONG W125 51.90  
 PASS NO. 41  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.54	6.30	24.03	157.06*
2.2	2.2	30.56	6.31	24.04	148.71*
5.0	5.0	30.56	6.32	24.04	136.19*
10.3	10.4	30.56	6.32	24.04	+
15.3	15.4	30.56	6.32	24.04	94.44*
20.3	20.4	30.56	6.32	24.04	+
25.0	25.1	30.56	6.32	24.04	52.69*
30.0	30.2	30.55	6.31	24.04	+
35.1	35.2	30.56	6.32	24.04	10.94*
40.1	40.3	30.57	6.33	24.05	1.14*
45.1	45.3	30.57	6.33	24.05	.81*
50.1	50.4	30.57	6.33	24.05	.73*
60.2	60.5	30.57	6.34	24.05	.84*
70.1	70.4	30.58	6.35	24.05	.87*
80.1	80.5	30.58	6.35	24.05	1.47*
90.2	90.6	30.61	6.41	24.07	+
100.1	100.5	30.62	6.46	24.07	2.12*
110.2	110.7	30.68	6.59	24.10	2.53*
120.3	120.8	30.70	6.64	24.11	1.88*
130.1	130.7	30.71	6.70	24.11	1.86*
140.1	140.8	30.75	6.74	24.14	1.15*
150.2	150.9	30.75	6.76	24.13	1.54*
160.1	160.9	30.79	6.84	24.15	2.92*
170.2	171.0	30.82	6.91	24.17	3.53
180.3	181.1	30.84	6.97	24.18	2.81*
190.2	191.1	30.93	7.16	24.23	2.71*
200.3	201.2	30.95	7.21	24.24	2.90
210.1	211.1	31.03	7.38	24.27	3.96*
220.0	221.1	31.07	7.47	24.29	2.83*
230.2	231.3	31.11	7.56	24.31	2.39*
240.2	241.4	31.14	7.64	24.33	2.07*
250.2	251.4	31.17	7.69	24.34	1.70*
260.2	261.5	31.18	7.71	24.35	1.48*
270.2	271.6	31.19	7.73	24.35	1.03*
280.2	281.5	31.19	7.74	24.35	1.08*
290.2	291.6	31.20	7.75	24.36	.86*
300.1	301.6	31.20	7.75	24.36	1.04*
310.1	311.6	31.21	7.75	24.36	1.61*
320.1	321.7	31.22	7.78	24.37	+

MAX DEPTH 324.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 40.70  
 DATE 18/ 1/78  
 TIME (PST) 2230

TAPE CZ0/78/ 3- 77  
 LONG W125 54.40  
 PASS NO. 43  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.00	5.61	.05	299.71
2.0	2.1	30.49	6.20	24.00	106.43
5.2	5.2	30.48	6.20	24.00	5.59*
10.2	10.3	30.48	6.20	24.00	1.34*
15.3	15.3	30.49	6.20	24.00	1.23*
20.0	20.1	30.49	6.20	24.00	1.18*
25.2	25.3	30.49	6.21	24.00	1.42*
30.2	30.4	30.50	6.21	24.00	2.09
35.3	35.4	30.52	6.24	24.02	5.47
40.1	40.2	30.53	6.27	24.02	2.37*
45.1	45.3	30.53	6.27	24.02	1.70*
50.3	50.5	30.54	6.28	24.03	1.81*
60.1	60.4	30.55	6.31	24.03	2.10*
70.0	70.3	30.56	6.34	24.04	.48*
80.1	80.4	30.56	6.35	24.04	.63*
90.1	90.5	30.57	6.37	24.04	.58*
100.1	100.6	30.58	6.38	24.05	2.41*
110.2	110.7	30.61	6.48	24.06	4.07*
120.2	120.8	30.68	6.61	24.10	4.95*
130.2	130.8	30.73	6.71	24.12	3.11*
140.1	140.8	30.76	6.76	24.14	2.94*
150.1	150.8	30.80	6.87	24.16	1.99*
160.3	161.0	30.81	6.93	24.16	1.78*
170.0	170.8	30.89	7.06	24.20	3.22*
180.2	181.0	30.95	7.21	24.24	2.96*
190.0	191.0	30.99	7.28	24.26	6.06
200.2	201.1	31.03	7.39	24.27	2.20*
210.3	211.3	31.09	7.51	24.31	2.81*
220.2	221.3	31.11	7.55	24.31	.68*
230.0	231.1	31.11	7.57	24.31	1.28*
240.2	241.4	31.12	7.60	24.32	1.42*
250.0	251.2	31.13	7.62	24.32	1.16*
260.0	261.3	31.15	7.65	24.33	1.86*
270.3	271.6	31.16	7.68	24.34	1.78*
280.2	281.5	31.19	7.74	24.35	2.13*
290.3	291.7	31.20	7.77	24.36	.90*
300.1	301.6	31.21	7.78	24.36	1.05*
310.0	311.6	31.21	7.79	24.36	.80*
320.2	321.7	31.21	7.79	24.36	.93*
330.3	331.9	31.21	7.78	24.36	+
340.3	342.0	31.21	7.79	24.36	+
360.1	361.9	31.21	7.77	24.36	+

MAX DEPTH 371.2



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 18/ 1/78  
 TIME (PST) 2310

TAPE CZ0/78/ 3- 78  
 LONG W125 57.20  
 PASS NO. 46  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.48	6.18	23.99	+
2.1	2.1	30.48	6.18	23.99	.11*
5.1	5.1	30.48	6.18	23.99	.26*
10.1	10.1	30.48	6.18	24.00	1.27*
15.3	15.4	30.48	6.18	23.99	2.28*
20.0	20.1	30.51	6.22	24.02	2.67
25.0	25.2	30.52	6.26	24.01	3.06
30.1	30.2	30.52	6.26	24.01	+
35.0	35.2	30.51	6.26	24.01	3.84
40.1	40.3	30.52	6.28	24.01	+
45.1	45.3	30.52	6.27	24.02	3.74*
50.1	50.3	30.52	6.27	24.01	+
60.0	60.3	30.53	6.29	24.02	1.90*
70.2	70.5	30.57	6.38	24.04	2.20*
80.2	80.6	30.59	6.45	24.05	1.99*
90.2	90.6	30.62	6.51	24.07	4.90
100.3	100.7	30.68	6.63	24.10	3.11
110.2	110.7	30.77	6.82	24.15	3.46*
120.2	120.7	30.79	6.86	24.16	1.13*
130.2	130.8	30.80	6.87	24.16	1.80*
140.2	140.9	30.81	6.89	24.17	3.26*
150.3	151.1	30.87	7.03	24.20	2.23*
160.3	161.0	30.89	7.07	24.21	3.25*
170.1	171.0	30.98	7.28	24.25	5.36*
180.2	181.0	31.06	7.46	24.29	2.54*
190.1	191.0	31.10	7.53	24.31	3.83
200.3	201.3	31.16	7.66	24.34	2.19*
210.1	211.1	31.18	7.71	24.35	1.36*
220.1	221.2	31.19	7.72	24.35	1.32*
230.3	231.4	31.20	7.74	24.35	1.06*
240.2	241.4	31.21	7.76	24.36	1.29*
250.1	251.3	31.21	7.77	24.36	1.12*
260.2	261.5	31.21	7.77	24.36	.88*
270.3	271.6	31.22	7.77	24.37	+
280.1	281.5	31.21	7.77	24.36	.49*
290.0	291.4	31.21	7.77	24.36	.63*
300.2	301.6	31.22	7.78	24.37	.67*
310.1	311.7	31.22	7.78	24.37	.80*

MAX DEPTH 313.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 18/ 1/78  
 TIME (PST) 2340

TAPE CZ0/78/ 3- 79  
 LONG W125 59.50  
 PASS NO: 48  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.06	6.14	18.96	136.97
2.1	2.1	30.44	6.14	23.97	56.32
5.0	5.1	30.48	6.14	24.00	6.92*
10.3	10.4	30.48	6.16	23.99	1.91*
15.2	15.3	30.52	6.21	24.02	1.33*
20.2	20.3	30.51	6.22	24.02	.90*
25.0	25.1	30.53	6.27	24.02	1.05*
30.1	30.2	30.53	6.28	24.02	+
35.0	35.2	30.52	6.28	24.02	1.35*
40.1	40.3	30.53	6.29	24.02	+
45.2	45.4	30.55	6.32	24.04	2.45*
50.1	50.3	30.57	6.35	24.04	+
60.1	60.4	30.61	6.46	24.07	2.14*
70.0	70.4	30.63	6.50	24.08	1.00*

MAX DEPTH 77.1

CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 39.90  
 DATE 19/ 1/78  
 TIME (PST) 0004

TAPE CZ0/78/ 3- 80  
 LONG W126 4.20  
 PASS NO. 50  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.20	6.51	18.24	72.01*
2.1	2.1	30.65	6.51	24.09	63.81*
5.1	5.1	30.66	6.51	24.09	51.51*
10.1	10.1	30.66	6.51	24.09	+
15.3	15.4	30.66	6.52	24.09	10.52*
20.3	20.4	30.67	6.54	24.10	1.44*
25.0	25.1	30.67	6.54	24.10	1.24*
30.2	30.4	30.67	6.54	24.10	+
35.2	35.4	30.67	6.54	24.10	.85*
40.2	40.4	30.67	6.54	24.10	.90*
45.3	45.5	30.67	6.56	24.10	1.13*
50.1	50.3	30.68	6.56	24.10	+
60.1	60.4	30.68	6.57	24.11	1.30*
70.0	70.3	30.69	6.58	24.11	.85*
80.3	80.7	30.69	6.59	24.11	.80*
90.2	90.6	30.70	6.62	24.12	1.23*
100.2	100.7	30.71	6.66	24.12	1.10*
110.1	110.6	30.72	6.67	24.12	.77*
120.0	120.6	30.73	6.71	24.12	2.21
130.2	130.8	30.74	6.75	24.13	1.05*
140.1	140.8	30.75	6.79	24.13	1.18*
150.1	150.8	30.76	6.81	24.14	.40*
160.0	160.8	30.76	6.81	24.14	.63*
170.1	170.9	30.76	6.81	24.14	.55*
180.1	181.0	30.76	6.82	24.14	2.54*

MAX DEPTH 188.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 39.20  
 DATE 19/ 1/78  
 TIME (PST) 1247

TAPE CZ0/78/ 3- 81  
 LONG W126 12.50  
 PASS NO. 53  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	1.20	6.57	.96	194.71*
2.1	2.1	30.68	6.55	24.10	171.99*
5.1	5.1	30.68	6.55	24.11	137.90*
10.1	10.1	30.67	6.54	24.10	+
15.3	15.4	30.67	6.53	24.10	24.28*
20.1	20.2	30.67	6.55	24.10	1.04*
25.1	25.2	30.68	6.55	24.10	.83*
30.3	30.4	30.68	6.56	24.11	.84*
35.2	35.3	30.67	6.55	24.10	.98*
40.0	40.2	30.67	6.55	24.10	+
45.1	45.3	30.71	6.56	24.13	1.27*
50.2	50.5	30.69	6.60	24.11	+
60.1	60.4	30.71	6.66	24.11	1.48*
70.1	70.4	30.73	6.72	24.13	1.03*
80.1	80.5	30.74	6.76	24.13	.90*
90.2	90.6	30.74	6.74	24.13	1.06*
100.1	100.6	30.74	6.74	24.13	1.25*
110.3	110.8	30.75	6.78	24.13	1.45*
120.0	120.6	30.75	6.79	24.13	+
130.1	130.7	30.75	6.79	24.13	.69*
140.3	140.9	30.75	6.82	24.13	+
150.2	150.9	30.76	6.83	24.13	+
160.0	160.8	30.76	6.82	24.13	+
170.1	170.9	30.76	6.83	24.13	.84*
180.2	181.1	30.76	6.84	24.14	+
190.1	191.0	30.78	6.87	24.14	3.83
200.2	201.1	30.78	6.87	24.14	+

MAX DEPTH 201.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 38.50  
 DATE 19/ 1/78  
 TIME (PST) 0118

TAPE CZ0/78/ 3- 82  
 LONG W126 17.30  
 PASS NO. 54  
 STN: 18 - KN 2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.59	6.48	21.69	139.67*
2.2	2.2	30.64	6.48	24.08	100.23*
5.3	5.3	30.64	6.48	24.08	41.05*
10.2	10.2	30.64	6.50	24.08	.77*
15.1	15.2	30.64	6.50	24.08	.62*
20.3	20.4	30.64	6.50	24.08	.68*
25.3	25.4	30.65	6.51	24.09	.90*
30.1	30.3	30.65	6.52	24.09	.94*
35.3	35.5	30.65	6.52	24.09	.85*
40.0	40.2	30.65	6.53	24.09	1.07*
45.2	45.4	30.66	6.54	24.09	1.52*
50.3	50.6	30.68	6.56	24.10	2.91
60.1	60.4	30.69	6.64	24.11	.75*
70.0	70.3	30.69	6.65	24.11	+
80.2	80.6	30.69	6.67	24.10	1.02*
90.3	90.7	30.71	6.70	24.11	1.35*
100.1	100.6	30.72	6.71	24.12	3.40*
110.0	110.5	30.75	6.80	24.13	+
120.2	120.7	30.76	6.79	24.14	+
130.0	130.6	30.75	6.78	24.13	1.71
140.0	140.7	30.75	6.78	24.13	3.68*
150.1	150.8	30.76	6.80	24.14	.96*
160.3	161.1	30.75	6.82	24.12	4.12
170.1	170.9	30.77	6.82	24.14	1.94*
180.3	181.2	30.78	6.89	24.14	1.71*
190.1	191.0	30.76	6.90	24.13	+
200.0	201.0	30.78	6.90	24.14	+
210.1	211.1	30.78	6.91	24.14	+
220.1	221.2	30.78	6.92	24.14	+
230.0	231.1	30.80	6.95	24.15	+

MAX DEPTH 232.6



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 11 KNIGHT INLET 1978  
 LAT N50 38.10  
 DATE 19/ 1/78  
 TIME (PST) 0204

TAPE CZ0/78/ 3- 83  
 LONG W126 25.20  
 PASS NO. 56  
 STN: 19 - KN 1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.28	6.68	22.21	28.35*
2.2	2.2	30.69	6.58	24.11	20.62*
5.3	5.3	30.69	6.58	24.11	9.03*
10.4	10.4	30.70	6.58	24.12	.57*
15.0	15.1	30.69	6.59	24.11	.56*
20.1	20.2	30.70	6.59	24.11	.40*
25.2	25.3	30.70	6.59	24.12	.12*
30.3	30.4	30.70	6.59	24.12	.17*
35.1	35.3	30.70	6.59	24.12	.46*
40.2	40.4	30.70	6.59	24.12	.58*
45.1	45.3	30.70	6.59	24.12	.58*
50.1	50.3	30.70	6.59	24.12	.54*
60.2	60.4	30.70	6.60	24.12	+
70.0	70.4	30.70	6.60	24.12	+
80.2	80.5	30.70	6.60	24.12	.26*
90.2	90.6	30.70	6.60	24.12	.59*
100.0	100.5	30.70	6.60	24.12	+
110.1	110.6	30.71	6.62	24.12	.88*
120.1	120.7	30.71	6.62	24.13	.56*
130.1	130.7	30.71	6.62	24.12	.68*
140.0	140.7	30.71	6.63	24.12	.81*
150.0	150.7	30.72	6.64	24.12	.68*
160.2	160.9	30.72	6.65	24.13	+
170.3	171.1	30.73	6.67	24.13	.81*
180.1	181.0	30.73	6.69	24.13	.96*
190.3	191.2	30.74	6.73	24.13	1.22*
200.2	201.1	30.75	6.75	24.13	+
210.1	211.1	30.75	6.76	24.13	+
220.2	221.2	30.75	6.77	24.14	+
230.0	231.1	30.75	6.78	24.14	+

MAX DEPTH 232.1

CRUISE NO. 12



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 58.90  
 DATE 18/ 2/78  
 TIME (PST) 0808

TAPE CZ0/78/ 4- 1  
 LONG W125 33.20  
 PASS NO. 3  
 STN: 2 - KN 10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.90	4.21	19.80	86.64
2.1	2.1	28.71	5.24	22.70	56.97
5.2	5.2	29.89	5.81	23.57	19.94
10.3	10.3	30.36	6.16	23.90	8.17
15.2	15.3	30.43	6.20	23.95	6.84*
20.1	20.2	30.51	6.24	24.01	4.73*
25.3	25.4	30.54	6.27	24.03	3.00*
30.1	30.3	30.55	6.28	24.04	1.88*
35.1	35.3	30.55	6.28	24.04	1.19*
40.2	40.4	30.55	6.28	24.04	2.59
45.1	45.3	30.57	6.30	24.05	3.49*
50.0	50.3	30.58	6.33	24.05	1.40*
60.2	60.5	30.59	6.39	24.06	1.11*
70.2	70.5	30.61	6.44	24.06	1.61*
80.1	80.5	30.63	6.51	24.08	1.64*
90.2	90.6	30.63	6.55	24.07	1.54*
100.0	100.5	30.66	6.64	24.08	1.59*
110.1	110.6	30.70	6.87	24.08	.86*
120.2	120.8	30.72	6.95	24.09	2.10*
130.1	130.7	30.77	7.14	24.10	2.05*
140.2	140.9	30.81	7.26	24.12	1.84*
150.1	150.8	30.81	7.25	24.12	.79*
160.0	160.8	30.86	7.35	24.15	2.90*
170.2	171.0	30.88	7.40	24.16	3.14
180.2	181.1	30.92	7.41	24.18	2.86*
190.2	191.1	30.94	7.45	24.20	2.35*
200.1	201.1	30.97	7.47	24.22	3.04*
210.1	211.1	31.02	7.46	24.26	4.22*
220.2	221.2	31.05	7.47	24.28	2.13*
230.2	231.3	31.06	7.48	24.29	1.88*
240.1	241.3	31.08	7.48	24.30	1.95*
250.3	251.5	31.10	7.49	24.31	2.09*
260.2	261.5	31.11	7.49	24.32	2.01*
270.2	271.5	31.12	7.49	24.33	1.84*
280.1	281.5	31.14	7.51	24.34	1.56*
290.1	291.5	31.15	7.56	24.35	

MAX DEPTH 292.8



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 54.30  
 DATE 18/ 2/78  
 TIME (PST) 0859

TAPE CZ0/78/ 4- 2  
 LONG W125 32.80  
 PASS NO. 5  
 STN: 3 - KN 9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.96	4.20	19.84	102.77
2.1	2.1	28.36	4.87	22.47	55.77
5.3	5.3	29.85	5.78	23.55	15.16
10.0	10.1	30.45	6.30	23.95	7.40
15.3	15.3	30.50	6.31	24.00	4.90
20.1	20.2	30.51	6.24	24.01	6.44*
25.0	25.2	30.52	6.23	24.02	2.45*
30.1	30.3	30.54	6.25	24.03	2.41*
35.2	35.4	30.56	6.25	24.05	2.49*
40.4	40.5	30.56	6.28	24.05	2.10*
45.1	45.3	30.57	6.29	24.05	1.68*
50.4	50.6	30.58	6.33	24.06	1.54*
60.0	60.3	30.59	6.36	24.06	1.57*
70.2	70.5	30.61	6.4	24.07	1.62*
80.2	80.5	30.61	6.45	24.07	+
90.3	90.7	30.63	6.52	24.07	1.32*
100.3	100.8	30.65	6.60	24.08	1.97*
110.0	110.5	30.69	6.75	24.09	5.19
120.4	120.9	30.74	6.98	24.10	+
130.1	130.8	30.76	7.06	24.10	1.51*
140.2	140.9	30.78	7.04	24.12	3.53
150.3	151.0	30.87	7.35	24.15	3.95*
160.2	161.0	30.90	7.36	24.18	1.96*
170.0	170.8	30.93	7.44	24.19	3.00*
180.0	180.9	30.98	7.45	24.23	5.24
190.3	191.2	31.00	7.45	24.24	2.60*
200.1	201.1	31.04	7.46	24.27	2.60*
210.2	211.3	31.06	7.46	24.29	2.10*
220.1	221.1	31.08	7.46	24.30	1.64*
230.1	231.2	31.09	7.48	24.31	1.88*
240.1	241.3	31.11	7.53	24.32	1.63*
250.2	251.4	31.12	7.54	24.33	1.63*
260.0	261.3	31.14	7.56	24.34	1.84*
270.3	271.6	31.16	7.60	24.35	1.68*
280.2	281.6	31.17	7.62	24.35	.95*
290.0	291.4	31.18	7.65	24.35	.98*
300.1	301.6	31.19	7.67	24.36	1.06*
310.2	311.7	31.19	7.67	24.36	.75*
320.1	321.6	31.19	7.67	24.36	1.24*
330.3	331.9	31.20	7.69	24.37	1.11*
340.1	341.8	31.20	7.68	24.37	1.09*
360.1	361.9	31.21	7.67	24.37	.94*
380.2	382.1	31.21	7.67	24.37	

MAX DEPTH 387.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 52.40  
 DATE 18/ 2/78  
 TIME (PST) 0939

TAPE CZ0/78/ 4- 3  
 LONG W125 38.50  
 PASS NO. 7  
 STN: 4 - KN 8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	25.44	4.08	20.23	79.37
2.0	2.1	28.93	5.12	22.89	46.12
5.1	5.1	29.96	5.92	23.62	23.93
10.2	10.2	30.38	6.36	23.89	8.21
15.0	15.1	30.52	6.53	23.99	4.12
20.0	20.1	30.55	6.56	24.00	3.81*
25.0	25.1	30.57	6.57	24.02	2.68*
30.3	30.5	30.58	6.59	24.02	2.37*
35.1	35.3	30.59	6.59	24.03	2.14*
40.1	40.3	30.60	6.58	24.04	2.03*
45.1	45.3	30.60	6.58	24.04	+
50.2	50.5	30.61	6.47	24.06	1.82*
60.1	60.4	30.61	6.53	24.05	+
70.1	70.4	30.59	6.42	24.06	1.21*
80.1	80.4	30.60	6.36	24.06	.95*
90.2	90.6	30.61	6.41	24.07	1.07*
100.4	100.9	30.61	6.44	24.07	1.07*
110.2	110.8	30.63	6.49	24.08	1.87*
120.1	120.7	30.67	6.63	24.09	1.27*
130.3	130.9	30.69	6.77	24.09	1.64*
140.1	140.8	30.72	6.87	24.10	1.71*
150.3	151.0	30.75	6.92	24.12	5.88
160.2	161.0	30.82	7.07	24.15	3.11*
170.2	171.0	30.84	7.18	24.15	2.45*
180.1	181.0	30.88	7.28	24.17	2.30*
190.2	191.1	30.93	7.37	24.20	3.46*
200.1	201.0	30.98	7.42	24.23	2.77*
210.1	211.1	31.01	7.43	24.25	2.81*
220.2	221.3	31.04	7.44	24.27	2.62*
230.2	231.3	31.08	7.49	24.29	1.93*
240.3	241.4	31.09	7.53	24.30	2.10*
250.2	251.4	31.11	7.57	24.31	1.33*
260.3	261.6	31.12	7.54	24.32	1.89*
270.3	271.6	31.14	7.56	24.33	2.44*
280.1	281.4	31.17	7.66	24.35	1.58*
290.3	291.8	31.18	7.68	24.35	1.93
300.3	301.8	31.19	7.68	24.36	1.65*
310.3	311.8	31.19	7.67	24.36	.78*
320.3	321.9	31.19	7.67	24.36	.66*
330.2	331.9	31.20	7.68	24.36	1.25*
340.0	341.7	31.20	7.68	24.37	1.17*
360.1	361.8	31.21	7.71	24.37	.40*
380.1	382.0	31.21	7.71	24.37	.96*
400.1	402.0	31.20	7.61	24.38	+
420.3	422.3	31.20	7.63	24.38	+

MAX DEPTH 432.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 47.90  
 DATE 18/ 2/78  
 TIME (PST) 1028

TAPE C20/78/ 4- 4  
 LONG W125 37.00  
 PASS NO. 9  
 STN: 5 - KN 7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.50	4.40	21.84	51.78
2.0	2.1	28.80	5.02	22.80	35.54
5.4	5.4	29.16	5.11	23.07	12.00
10.1	10.1	30.49	6.36	23.98	18.74*
15.2	15.2	30.52	6.34	24.01	4.11*
20.3	20.4	30.54	6.33	24.02	3.27*
25.1	25.2	30.55	6.34	24.03	2.42*
30.3	30.4	30.58	6.45	24.04	1.53*
35.0	35.2	30.60	6.50	24.05	2.31
40.1	40.3	30.61	6.53	24.05	4.84*
45.2	45.4	30.59	6.48	24.05	2.41*
50.4	50.6	30.61	6.55	24.05	2.20*
60.2	60.4	30.61	6.46	24.06	2.26*
70.0	70.4	30.62	6.48	24.07	+
80.0	80.4	30.64	6.52	24.08	1.94*
90.3	90.8	30.65	6.55	24.09	1.43*
100.2	100.6	30.67	6.61	24.09	1.77*
110.1	110.6	30.71	6.71	24.11	1.66*
120.0	120.6	30.72	6.76	24.11	1.43*
130.2	130.8	30.74	6.82	24.12	2.13*
140.1	140.8	30.78	6.94	24.13	4.29
150.1	150.8	30.81	7.07	24.14	3.13
160.3	161.1	30.87	7.19	24.17	3.93*
170.1	170.9	30.94	7.28	24.22	4.69*
180.2	181.0	30.96	7.35	24.22	2.69*
190.2	191.1	31.01	7.39	24.25	4.32
200.0	201.0	31.04	7.44	24.27	2.51*
210.3	211.3	31.06	7.50	24.28	1.75*
220.1	221.2	31.08	7.52	24.29	1.74*
230.0	231.2	31.10	7.53	24.31	1.68*
240.4	241.5	31.12	7.57	24.32	1.37*
250.2	251.4	31.14	7.57	24.33	2.10*
260.1	261.3	31.15	7.59	24.34	1.37*
270.3	271.6	31.16	7.63	24.34	1.62*
280.1	281.5	31.18	7.63	24.36	1.48*
290.1	291.5	31.18	7.63	24.36	1.08*
300.1	301.6	31.18	7.64	24.36	1.12*
310.2	311.7	31.19	7.65	24.36	.89*
320.1	321.7	31.20	7.67	24.37	.80*
330.2	331.8	31.20	7.69	24.37	.71*
340.1	341.8	31.21	7.70	24.37	+
360.2	362.0	31.22	7.71	24.38	.96*
380.2	382.0	31.22	7.71	24.38	.76*
400.2	402.2	31.23	7.73	24.38	+
420.0	422.1	31.23	7.73	24.38	+
440.0	442.2	31.22	7.69	24.38	

MAX DEPTH 442.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 45.10  
 DATE 18/ 2/78  
 TIME (PST) 1106

TAPE CZ0/78/ 4- 5  
 LONG W125 41.00  
 PASS NO. 11  
 STN: 6 - KN 6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.67	4.8	22.71	17.03
2.1	2.1	29.13	5.05	23.06	24.67
5.1	5.1	29.96	5.80	23.63	22.81
10.3	10.3	30.38	6.31	23.90	7.08*
15.2	15.2	30.49	6.48	23.97	5.44*
20.1	20.2	30.54	6.56	24.00	6.32
25.1	25.2	30.59	6.61	24.03	3.41*
30.2	30.3	30.59	6.62	24.03	1.54*
35.2	35.4	30.60	6.63	24.03	1.53*
40.1	40.3	30.60	6.63	24.04	1.38*
45.2	45.4	30.61	6.64	24.04	1.13*
50.2	50.5	30.61	6.64	24.04	1.19*
60.1	60.4	30.63	6.66	24.05	1.53*
70.0	70.3	30.63	6.63	24.06	2.75
80.2	80.5	30.64	6.63	24.07	1.60*
90.3	90.7	30.65	6.63	24.07	1.23*
100.1	100.5	30.65	6.58	24.08	2.22
110.1	110.6	30.67	6.62	24.09	1.54*
120.3	120.9	30.68	6.64	24.10	1.06*
130.0	130.6	30.70	6.70	24.11	1.97*
140.1	140.7	30.72	6.77	24.12	2.13*
150.2	150.9	30.76	6.85	24.13	1.98*
160.0	160.8	30.78	6.96	24.14	3.21*
170.1	170.9	30.81	7.00	24.15	2.17*
180.1	180.9	30.87	7.16	24.17	3.13*
190.0	190.9	30.92	7.21	24.21	2.99*
200.1	201.1	30.97	7.28	24.24	6.08*
210.1	211.1	30.99	7.33	24.25	2.33*
220.1	221.2	31.03	7.37	24.28	2.43*
230.2	231.3	31.05	7.41	24.29	2.02*
240.3	241.4	31.07	7.45	24.30	1.31*
250.2	251.4	31.08	7.46	24.30	1.17*
260.3	261.5	31.09	7.48	24.31	1.77*
270.2	271.5	31.11	7.51	24.32	3.79
280.2	281.5	31.14	7.57	24.33	1.76*
290.1	291.5	31.15	7.59	24.34	1.57*
300.3	301.7	31.17	7.62	24.35	1.46*
310.1	311.6	31.18	7.64	24.36	1.57*
320.4	321.9	31.18	7.65	24.36	.84*
330.2	331.8	31.19	7.65	24.36	1.01*
340.2	341.9	31.20	7.66	24.37	1.14*
360.2	361.9	31.21	7.67	24.37	+
380.2	382.1	31.21	7.68	24.38	+
400.2	402.2	31.21	7.69	24.38	+
420.2	422.3	31.21	7.69	24.38	+
440.1	442.3	31.22	7.69	24.38	

MAX DEPTH 445.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 41.90  
 DATE 18/ 2/78  
 TIME (PST) 1146

TAPE CZ0/78/ 4- 6  
 LONG W125 43.50  
 PASS NO. 13  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.50	5.48	23.30	58.52
2.0	2.0	29.51	5.49	23.31	28.64
5.2	5.2	29.91	5.74	23.60	25.60
10.3	10.3	30.46	6.42	23.95	8.39
15.1	15.1	30.53	6.49	23.99	4.03*
20.0	20.1	30.53	6.51	24.00	2.11*
25.1	25.2	30.54	6.52	24.00	1.88*
30.2	30.4	30.55	6.54	24.01	1.78*
35.3	35.5	30.56	6.54	24.01	2.33*
40.1	40.3	30.58	6.57	24.02	2.75*
45.3	45.5	30.61	6.62	24.05	2.26*
50.4	50.6	30.62	6.64	24.05	1.84*
60.1	60.3	30.65	6.68	24.06	1.69*
70.4	70.7	30.65	6.70	24.06	1.06*
80.4	80.7	30.66	6.68	24.07	1.55*
90.3	90.8	30.66	6.65	24.08	1.34*
100.1	100.5	30.66	6.63	24.08	1.39*
110.4	110.9	30.67	6.65	24.09	1.86*
120.3	120.8	30.70	6.69	24.10	2.02*
130.4	131.0	30.72	6.75	24.11	1.67*
140.4	141.0	30.75	6.84	24.12	1.88*
150.2	150.9	30.78	6.91	24.14	2.23*
160.2	160.9	30.83	7.04	24.16	3.39
170.2	171.0	30.87	7.11	24.18	3.83*
180.1	180.9	30.91	7.16	24.21	3.27*
190.1	191.0	30.96	7.24	24.24	2.27*
200.1	201.0	30.99	7.29	24.26	1.39*
210.1	211.1	31.01	7.33	24.27	3.34*
220.4	221.4	31.05	7.41	24.29	1.41*
230.3	231.4	31.07	7.43	24.30	1.42*
240.3	241.4	31.09	7.46	24.31	1.40*
250.1	251.3	31.10	7.49	24.32	1.76*
260.1	261.4	31.11	7.51	24.32	1.78*
270.3	271.6	31.14	7.54	24.33	3.27*
280.4	281.7	31.14	7.56	24.34	1.50*
290.0	291.4	31.16	7.59	24.35	1.79*
300.4	301.8	31.17	7.61	24.36	4.09*
310.1	311.6	31.18	7.62	24.36	3.58
320.1	321.6	31.20	7.65	24.37	1.45*
330.4	332.0	31.21	7.66	24.38	1.13*
340.1	341.7	31.21	7.68	24.38	1.21*
360.3	362.1	31.22	7.67	24.38	.76*
380.1	381.9	31.21	7.68	24.38	+
400.2	402.1	31.22	7.68	24.38	+

MAX DEPTH 406.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 41.70  
 DATE 18/ 2/78  
 TIME (PST) 1227

TAPE CZ0/78/ 4- 7  
 LONG W125 46.60  
 PASS NO. 15  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.85	5.89	23.53	10.81*
2.2	2.2	29.85	5.89	23.53	3.58*
5.2	5.3	29.90	5.88	23.58	9.21*
10.1	10.2	30.34	6.24	23.88	7.61*
15.1	15.2	30.45	6.41	23.95	6.01*
20.3	20.4	30.53	6.49	24.00	4.14*
25.2	25.3	30.55	6.54	24.01	2.25*
30.2	30.4	30.56	6.57	24.01	2.32*
35.2	35.4	30.58	6.56	24.02	2.48*
40.2	40.4	30.59	6.60	24.03	2.68*
45.2	45.4	30.61	6.63	24.04	2.88*
50.1	50.4	30.64	6.67	24.06	2.36*
60.2	60.5	30.65	6.70	24.06	1.88*
70.1	70.4	30.67	6.72	24.07	1.82*
80.2	80.6	30.68	6.73	24.09	1.37*
90.0	90.5	30.69	6.75	24.09	1.58*
100.4	100.9	30.71	6.77	24.10	1.72*
110.4	110.9	30.71	6.78	24.10	1.12*
120.3	120.9	30.71	6.78	24.10	3.79
130.1	130.7	30.71	6.76	24.10	2.12
140.3	140.9	30.77	6.84	24.14	3.76*
150.1	150.8	30.79	6.94	24.14	.77*
160.2	160.9	30.80	6.95	24.15	2.09*
170.4	171.2	30.85	7.04	24.18	2.38
180.3	181.2	30.89	7.12	24.20	3.83*
190.0	190.9	30.92	7.16	24.22	2.31*
200.2	201.1	30.95	7.22	24.23	3.02*
210.3	211.3	30.99	7.32	24.26	5.40
220.2	221.3	31.03	7.37	24.28	2.39*
230.2	231.3	31.05	7.40	24.29	+
240.3	241.5	31.09	7.46	24.31	2.96*
250.1	251.3	31.12	7.53	24.33	2.19*
260.1	261.4	31.12	7.54	24.33	2.86
270.1	271.4	31.13	7.55	24.33	.58*
280.3	281.6	31.15	7.57	24.34	1.08*
290.0	291.4	31.15	7.57	24.34	1.20*
300.1	301.6	31.15	7.59	24.34	.96*
310.1	311.6	31.16	7.58	24.35	+
320.4	321.9	31.16	7.59	24.35	.91*
330.1	331.7	31.15	7.59	24.34	1.14*
340.1	341.8	31.16	7.60	24.35	1.08*
360.3	362.0	31.17	7.61	24.35	1.75*

MAX DEPTH 374.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 41.60  
 DATE 18/ 2/78  
 TIME (PST) 1253

TAPE CZ0/78/ 4- 8  
 LONG W125 49.30  
 PASS NO. 17  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.76	5.81	23.47	2.67
2.0	2.0	29.79	5.82	23.50	7.78
5.1	5.1	30.07	6.01	23.70	18.22
10.3	10.3	30.30	6.24	23.84	4.99
15.1	15.2	30.33	6.26	23.87	5.24*
20.2	20.3	30.42	6.32	23.93	4.72*
25.0	25.1	30.50	6.43	23.98	2.70*
30.2	30.3	30.50	6.46	23.98	1.91*
35.0	35.2	30.51	6.46	23.98	2.22*
40.2	40.4	30.52	6.48	23.99	2.39*
45.4	45.6	30.54	6.52	24.00	2.43*
50.1	50.3	30.55	6.54	24.01	2.16*
60.1	60.4	30.57	6.56	24.02	1.67*
70.2	70.5	30.59	6.60	24.03	1.97*
80.1	80.4	30.63	6.66	24.06	1.08*
90.3	90.7	30.64	6.66	24.06	.92*
100.1	100.6	30.64	6.68	24.06	1.69*
110.3	110.8	30.66	6.70	24.07	1.46*
120.1	120.6	30.66	6.72	24.07	1.48*
130.0	130.6	30.68	6.74	24.08	1.22*
140.3	140.9	30.69	6.75	24.09	2.10*
150.4	151.1	30.73	6.81	24.11	2.52*
160.2	160.9	30.74	6.84	24.12	2.66
170.1	170.9	30.77	6.89	24.13	

MAX DEPTH 174.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 41.10  
 DATE 18/ 2/78  
 TIME (PST) 1309

TAPE CZ0/78/ 4- 9  
 LONG W125 51.90  
 PASS NO. 19  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.81	5.83	23.51	3.33
2.2	2.2	29.86	5.86	23.55	6.86
5.0	5.0	30.08	6.02	23.70	5.53
10.3	10.3	30.26	6.19	23.82	9.33
15.3	15.4	30.39	6.30	23.91	6.23*
20.2	20.2	30.43	6.34	23.93	4.16*
25.4	25.6	30.44	6.38	23.94	2.00*
30.3	30.4	30.44	6.38	23.94	1.37*
35.2	35.3	30.45	6.40	23.94	1.81*
40.3	40.5	30.46	6.42	23.95	2.58*
45.2	45.4	30.52	6.46	23.99	3.61*
50.4	50.6	30.54	6.55	24.00	4.02*
60.1	60.4	30.62	6.65	24.05	3.28*
70.3	70.6	30.63	6.66	24.05	1.24*
80.2	80.6	30.64	6.68	24.06	.91*
90.3	90.7	30.64	6.69	24.06	1.10*
100.2	100.6	30.66	6.71	24.07	1.50*
110.1	110.6	30.66	6.72	24.07	.79*
120.3	120.9	30.67	6.72	24.08	.95*
130.4	131.0	30.67	6.73	24.08	1.58*
140.1	140.8	30.69	6.77	24.09	1.81*
150.2	150.9	30.70	6.78	24.09	1.62*
160.2	160.9	30.73	6.82	24.11	2.07*
170.3	171.1	30.74	6.85	24.12	1.31*
180.1	180.9	30.74	6.86	24.12	2.15*
190.0	190.9	30.81	6.97	24.15	3.49*
200.2	201.2	30.83	7.03	24.17	2.40*
210.3	211.3	30.86	7.07	24.18	1.77*
220.1	221.1	30.88	7.11	24.19	2.70
230.4	231.5	30.94	7.22	24.22	3.00*
240.1	241.2	31.04	7.39	24.28	6.38*
250.1	251.3	31.06	7.44	24.29	1.96*
260.2	261.5	31.09	7.48	24.30	1.98*
270.1	271.4	31.10	7.52	24.31	1.35*
280.1	281.4	31.11	7.52	24.32	1.50*
290.1	291.5	31.12	7.54	24.32	1.09*
300.1	301.6	31.13	7.55	24.33	1.63*
310.1	311.6	31.14	7.58	24.33	1.78*
320.1	321.6	31.16	7.61	24.34	+

MAX DEPTH 326.0



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 40.70  
 DATE 18/ 2/78  
 TIME (PST) 1330

TAPE CZ0/78/ 4- 10  
 LONG W125 54.40  
 PASS NO. 21  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.10	6.04	23.71	.52*
2.1	2.1	30.09	6.02	23.71	1.06*
5.3	5.3	30.12	6.05	23.73	2.66*
10.2	10.2	30.12	6.06	23.73	4.80*
15.1	15.2	30.28	6.19	23.83	6.94*
20.3	20.4	30.34	6.27	23.87	5.71*
25.1	25.2	30.36	6.30	23.89	4.27*
30.4	30.5	30.41	6.35	23.92	2.66*
35.2	35.4	30.42	6.38	23.92	1.04*
40.1	40.3	30.42	6.38	23.93	2.77*
45.3	45.5	30.45	6.41	23.95	4.58*
50.1	50.3	30.52	6.50	23.99	4.33*
60.3	60.6	30.62	6.63	24.05	2.81*
70.1	70.4	30.65	6.69	24.06	1.81*
80.4	80.7	30.68	6.74	24.08	1.99*
90.1	90.5	30.70	6.76	24.09	1.27*
100.2	100.6	30.69	6.77	24.09	1.06*
110.2	110.7	30.71	6.79	24.10	1.66*
120.2	120.8	30.73	6.83	24.11	1.71*
130.3	130.9	30.74	6.84	24.12	1.94*
140.1	140.8	30.77	6.89	24.13	2.40*
150.2	150.9	30.80	6.96	24.15	2.01*
160.1	160.9	30.81	6.98	24.16	2.39*
170.1	170.9	30.88	7.09	24.19	2.74*
180.1	181.0	30.91	7.14	24.21	2.01*
190.3	191.2	30.93	7.18	24.22	2.31*
200.3	201.3	30.98	7.27	24.25	2.78*
210.2	211.2	31.01	7.34	24.26	2.43*
220.1	221.1	31.05	7.39	24.29	2.18*
230.3	231.4	31.07	7.44	24.29	1.88*
240.3	241.4	31.08	7.46	24.30	1.65*
250.3	251.5	31.10	7.49	24.31	1.95*
260.0	261.3	31.12	7.52	24.32	1.85*
270.3	271.6	31.12	7.55	24.32	1.50*
280.1	281.5	31.13	7.57	24.33	1.22*
290.1	291.6	31.14	7.58	24.34	.74*
300.3	301.7	31.14	7.58	24.34	.53*
310.2	311.7	31.15	7.59	24.34	.50*
320.1	321.7	31.15	7.59	24.34	.55*
330.2	331.8	31.15	7.59	24.34	+
340.1	341.8	31.15	7.59	24.34	+

MAX DEPTH 355.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLLT 1978  
 LAT N50 40.60  
 DATE 18/ 2/78  
 TIME (PST) 1353

TAPE CZ0/78/ 4- 11  
 LONG W125 57.20  
 PASS NO. 23  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.59	5.64	23.35	1.09
2.1	2.1	29.67	5.68	23.41	12.29
5.1	5.1	30.07	6.01	23.69	14.20
10.2	10.2	30.27	6.18	23.83	6.28
15.1	15.2	30.29	6.20	23.84	3.14*
20.2	20.3	30.30	6.21	23.85	3.02*
25.0	25.2	30.36	6.28	23.89	4.25*
30.3	30.5	30.42	6.39	23.92	4.49
35.1	35.3	30.50	6.48	23.97	4.24*
40.4	40.6	30.53	6.53	23.99	4.54
45.2	45.4	30.58	6.60	24.02	4.98
50.4	50.6	30.62	6.65	24.05	3.69*
60.1	60.4	30.66	6.71	24.07	2.03*
70.3	70.6	30.68	6.74	24.08	1.58*
80.3	80.7	30.70	6.78	24.09	.96*
90.2	90.6	30.70	6.78	24.10	1.43*
100.0	100.5	30.72	6.81	24.11	1.44*
110.4	110.9	30.73	6.83	24.11	1.98*
120.3	120.9	30.76	6.88	24.13	2.56*
130.4	131.0	30.81	6.96	24.16	4.80*
140.3	140.9	30.85	7.03	24.18	3.63*
150.2	150.9	30.93	7.20	24.22	3.25*
160.3	161.1	30.96	7.23	24.24	1.80*
170.2	171.0	30.97	7.26	24.24	2.54*
180.3	181.2	31.02	7.36	24.27	3.23*
190.2	191.1	31.06	7.42	24.29	2.58*
200.3	201.3	31.09	7.47	24.30	2.35*
210.3	211.3	31.11	7.52	24.32	1.85*
220.2	221.3	31.12	7.54	24.33	1.33*
230.2	231.3	31.13	7.55	24.33	1.05*
240.1	241.3	31.14	7.57	24.34	.72*
250.1	251.3	31.14	7.57	24.34	.79*
260.3	261.6	31.15	7.58	24.34	.67*
270.3	271.6	31.15	7.58	24.34	.65*
280.4	281.7	31.15	7.59	24.34	1.05*
290.1	291.5	31.15	7.59	24.34	1.04*
300.1	301.6	31.16	7.60	24.34	.85*
310.1	311.6	31.16	7.60	24.34	+
320.0	321.6	31.16	7.60	24.35	+

MAX DEPTH 326.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 18/ 2/78  
 TIME (PST) 1411

TAPE CZ0/78/ 4- 12  
 LONG W125 59.50  
 PASS NO. 25  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.97	6.01	23.61	7.41
2.1	2.1	30.00	5.97	23.64	6.06
5.0	5.0	30.02	5.97	23.66	5.03
10.3	10.3	30.29	6.18	23.85	5.26
15.1	15.1	30.41	6.35	23.92	13.63
20.2	20.3	30.57	6.58	24.02	6.29*
25.3	25.4	30.61	6.64	24.04	6.33
30.2	30.4	30.66	6.70	24.07	5.47*
35.3	35.5	30.68	6.74	24.09	2.62*
40.4	40.6	30.70	6.77	24.10	1.84*
45.0	45.2	30.70	6.78	24.10	1.59*
50.1	50.3	30.71	6.77	24.10	2.31*
60.0	60.3	30.74	6.83	24.12	2.63*
70.6	70.9	30.78	6.91	24.14	4.96
80.3	80.7	30.82	6.98	24.16	2.23*
90.2	90.6	30.87	7.09	24.19	+
MAX DEPTH	91.6				

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 12 KNIGHT INLLT 1978

LAT N50 39.90

DATE 18/ 2/78

TIME (PST) 1436

TAPE CZ0/78/ 4- 13

LONG W126 4.20

PASS NO. 27

STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.23	6.28	23.78	4.17
2.0	2.0	30.26	6.28	23.81	6.41
5.1	5.2	30.32	6.31	23.85	9.97
10.0	10.1	30.44	6.42	23.93	6.08
15.2	15.2	30.47	6.43	23.96	5.12*
20.1	20.2	30.53	6.48	24.00	4.38*
25.4	25.5	30.57	6.54	24.02	3.56*
30.1	30.3	30.60	6.60	24.04	2.96*
35.0	35.2	30.60	6.58	24.04	2.49*
40.4	40.6	30.62	6.61	24.06	1.99*
45.2	45.5	30.62	6.62	24.05	1.46*
50.1	50.4	30.63	6.62	24.06	1.21*
60.1	60.4	30.63	6.63	24.06	1.18*
70.1	70.4	30.64	6.64	24.06	1.16*
80.1	80.5	30.64	6.67	24.06	+
90.2	90.6	30.65	6.67	24.07	.95*
100.0	100.5	30.64	6.68	24.06	.73*
110.4	110.9	30.65	6.69	24.07	.98*
120.4	120.9	30.66	6.71	24.07	1.32*
130.3	130.9	30.66	6.71	24.07	1.44*
140.4	141.1	30.67	6.71	24.08	1.66*
150.4	151.1	30.68	6.74	24.08	1.22*
160.1	160.8	30.69	6.75	24.09	1.00*
170.4	171.2	30.69	6.76	24.09	2.54*
180.1	180.9	30.69	6.76	24.09	+

MAX DEPTH 180.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 39.20  
 DATE 18/ 2/78  
 TIME (PST) 1516

TAPE CZ0/78/ 4- 14  
 LONG W126 12.50  
 PASS NO. 29  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.52	6.51	23.98	2.18*
2.1	2.1	30.41	6.51	23.90	.98*
5.0	5.1	30.53	6.51	23.99	2.57*
10.3	10.3	30.55	6.53	24.00	2.95*
15.3	15.3	30.57	6.54	24.02	3.34*
20.3	20.4	30.58	6.55	24.03	1.94*
25.3	25.5	30.59	6.56	24.03	.42*
30.3	30.4	30.59	6.56	24.03	1.10*
35.3	35.5	30.59	6.56	24.04	1.92*
40.4	40.5	30.60	6.56	24.04	1.36*
45.3	45.5	30.60	6.57	24.04	.70*
50.4	50.6	30.60	6.57	24.04	.83*
60.0	60.3	30.60	6.57	24.05	1.07*
70.0	70.4	30.61	6.58	24.05	.67*
80.1	80.5	30.61	6.58	24.05	.85*
90.3	90.7	30.62	6.60	24.06	1.41*
100.1	100.6	30.64	6.66	24.06	1.27*
110.5	111.0	30.67	6.76	24.07	1.18*
120.3	120.9	30.67	6.78	24.07	+
130.2	130.8	30.67	6.78	24.07	1.09*
140.4	141.0	30.68	6.79	24.08	.98*
150.3	151.0	30.68	6.80	24.07	1.22*
160.2	160.9	30.68	6.81	24.08	+

MAX DEPTH 165.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 38.50  
 DATE 18/ 2/78  
 TIME (PST) 1543

TAPE CZ0/78/ 4- 15  
 LONG W126 17.30  
 PASS NO. 31  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.48	6.44	23.97	6.33*
2.0	2.0	30.47	6.44	23.96	.73
5.2	5.2	30.47	6.44	23.96	5.34*
10.2	10.3	30.48	6.45	23.96	+
15.4	15.5	30.48	6.45	23.96	3.36*
20.1	20.2	30.51	6.47	23.98	2.67*
25.2	25.3	30.52	6.48	23.99	2.22*
30.0	30.2	30.53	6.48	24.00	1.69*
35.3	35.4	30.54	6.49	24.00	1.09*
40.0	40.2	30.53	6.49	24.00	.69*
45.3	45.5	30.54	6.49	24.00	.43*
50.1	50.4	30.53	6.49	24.00	.94*
60.4	60.7	30.58	6.54	24.03	3.77
70.4	70.7	30.61	6.65	24.04	2.39*
80.3	80.6	30.62	6.69	24.04	1.48*
90.3	90.8	30.62	6.65	24.05	.93*
100.1	100.6	30.63	6.63	24.06	.91*
110.2	110.8	30.63	6.65	24.06	.76*
120.2	120.8	30.65	6.65	24.07	4.35*
130.2	130.8	30.64	6.68	24.06	1.18*
140.3	140.9	30.66	6.74	24.07	1.42*
150.4	151.1	30.66	6.75	24.07	1.17*
160.0	160.8	30.68	6.79	24.08	+
170.0	170.8	30.67	6.79	24.07	2.54*

MAX DEPTH 177.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 12 KNIGHT INLET 1978  
 LAT N50 38.10  
 DATE 18/ 2/78  
 TIME (PST) 1621

TAPE CZ0/78/ 4- 16  
 LONG W126 25.20  
 PASS NO. 33  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.49	6.42	23.97	.55*
2.1	2.1	30.50	6.41	23.98	.27*
5.0	5.1	30.49	6.41	23.98	.69*
10.1	10.1	30.50	6.41	23.98	.83*
15.3	15.4	30.49	6.41	23.98	+
20.2	20.2	30.49	6.41	23.98	1.11*
25.0	25.1	30.50	6.41	23.98	1.26*
30.2	30.3	30.50	6.41	23.98	1.14*
35.3	35.5	30.50	6.41	23.98	1.02*
40.2	40.4	30.51	6.41	23.99	.94*
45.1	45.3	30.51	6.41	23.99	.86*
50.1	50.3	30.51	6.41	23.99	1.50*
60.4	60.7	30.53	6.41	24.01	1.58*
70.2	70.5	30.54	6.42	24.01	.81*
80.1	80.5	30.54	6.42	24.01	1.28*
90.1	90.5	30.55	6.42	24.02	1.95*
100.1	100.5	30.55	6.42	24.02	+
110.0	110.5	30.57	6.44	24.04	1.65*
120.0	120.6	30.58	6.44	24.04	1.01*
130.2	130.8	30.58	6.44	24.04	1.00*
140.2	140.8	30.58	6.45	24.04	.84*
150.2	150.9	30.58	6.45	24.04	+
160.3	161.1	30.58	6.44	24.04	.48*
170.1	170.9	30.58	6.44	24.04	.77*
180.4	181.2	30.58	6.44	24.04	+
190.1	190.9	30.60	6.45	24.05	1.38*
200.3	201.2	30.60	6.46	24.05	2.35*
210.1	211.1	30.60	6.47	24.06	+

MAX DEPTH 215.2

CRUISE NO. 13





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N51 2.30  
 DATE 14/ 3/78  
 TIME (PST) 2310

TAPE CZO/78/ 4- 17  
 LONG W125 33.80  
 PASS NO. 1  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.59	6.42	19.34	74.73
2.0	2.0	25.23	6.41	19.85	54.21
5.1	5.1	26.93	6.41	21.18	45.50
10.0	10.1	29.54	6.44	23.22	21.30
15.1	15.2	30.07	6.48	23.63	6.69
20.2	20.2	30.13	6.50	23.68	8.05
25.2	25.3	30.27	6.51	23.79	5.87
30.2	30.3	30.35	6.50	23.85	5.75
35.1	35.3	30.40	6.50	23.89	4.18*
40.0	40.2	30.44	6.50	23.92	4.31*
45.2	45.4	30.46	6.50	23.94	3.58*
50.1	50.3	30.47	6.50	23.95	3.28
60.1	60.4	30.52	6.45	23.99	3.08*
70.2	70.5	30.54	6.43	24.01	2.10*
80.0	80.4	30.55	6.43	24.02	1.18*
90.2	90.6	30.55	6.43	24.02	1.43*
100.2	100.7	30.56	6.43	24.03	1.81*
110.1	110.6	30.59	6.49	24.04	1.91*
120.0	120.6	30.61	6.57	24.05	1.44*
130.1	130.7	30.62	6.65	24.05	2.16*
140.2	140.9	30.67	6.73	24.07	1.85*
150.2	150.9	30.69	6.84	24.08	2.29*
160.1	160.8	30.75	6.96	24.11	2.91*
170.2	171.0	30.80	7.06	24.13	2.99*
180.3	181.1	30.86	7.19	24.16	4.26*
190.1	191.0	30.94	7.32	24.21	2.95*
200.1	201.1	30.97	7.36	24.23	3.62*
210.1	211.1	31.03	7.43	24.27	3.17*
220.1	221.1	31.06	7.46	24.29	1.98*
230.1	231.3	31.07	7.48	24.29	

MAX DEPTH 231.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 54.30  
 DATE 15/ 3/78  
 TIME (PST) 0129

TAPE CZ0/78/ 4- 18  
 LONG W125 32.80  
 PASS NO. 6  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	26.23	6.22	20.65	25.36
2.1	2.1	26.98	6.39	21.22	32.05
5.1	5.1	29.02	6.32	22.83	40.34
10.1	10.1	30.02	6.54	23.59	12.26
15.1	15.2	30.24	6.57	23.76	7.82
20.2	20.3	30.35	6.57	23.84	6.63
25.1	25.2	30.40	6.57	23.88	5.13*
30.2	30.3	30.45	6.61	23.92	4.33
35.1	35.3	30.47	6.64	23.93	3.75*
40.0	40.2	30.49	6.63	23.95	2.67*
45.1	45.3	30.51	6.63	23.96	2.30*
50.1	50.3	30.51	6.62	23.97	2.01*
60.1	60.3	30.54	6.62	23.99	2.61
70.2	70.5	30.56	6.58	24.01	2.63*
80.2	80.6	30.56	6.53	24.02	1.90*
90.2	90.6	30.56	6.45	24.02	2.44*
100.1	100.5	30.56	6.35	24.04	1.77*
110.3	110.8	30.58	6.41	24.05	1.64*
120.1	120.6	30.64	6.55	24.07	2.16*
130.2	130.8	30.68	6.80	24.08	1.97*
140.0	140.7	30.75	7.00	24.10	2.49*
150.2	150.9	30.81	7.22	24.12	2.80*
160.2	160.9	30.84	7.32	24.13	4.12*
170.1	170.9	30.90	7.39	24.17	2.59*
180.0	180.9	30.93	7.42	24.19	2.85*
190.1	191.0	30.98	7.44	24.23	2.56*
200.2	201.1	31.00	7.45	24.24	2.64*
210.0	211.0	31.02	7.45	24.26	2.51*
220.1	221.2	31.05	7.47	24.28	1.61*
230.0	231.1	31.06	7.48	24.29	1.20*
240.2	241.4	31.07	7.49	24.29	1.61*
250.1	251.4	31.09	7.51	24.30	1.91*
260.2	261.5	31.11	7.53	24.31	1.76*
270.0	271.4	31.12	7.57	24.32	1.04*
280.0	281.4	31.13	7.57	24.33	1.16*
290.1	291.5	31.13	7.59	24.33	1.60*
300.3	301.7	31.15	7.61	24.34	1.50*
310.1	311.6	31.16	7.62	24.34	1.32*
320.2	321.7	31.16	7.63	24.34	.91*
330.2	331.8	31.16	7.63	24.34	.76*
340.1	341.7	31.17	7.61	24.35	.71*
360.1	361.8	31.17	7.62	24.35	.89*
380.2	382.1	31.17	7.62	24.35	1.21*
400.1	402.0	31.19	7.63	24.36	

MAX DEPTH 407.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 52.40  
 DATE 15/ 3/78  
 TIME (PST) 0212

TAPE CZ0/78/ 4- 19  
 LONG W125 38.50  
 PASS NO. 8  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.58	6.44	21.69	24.66
2.1	2.1	27.92	6.48	21.95	15.76
5.0	5.0	28.60	6.49	22.49	29.53
10.1	10.1	29.84	6.50	23.45	18.22
15.3	15.4	30.05	6.57	23.61	10.90
20.0	20.1	30.29	6.66	23.79	7.85
25.2	25.3	30.42	6.69	23.89	5.21*
30.1	30.2	30.45	6.69	23.91	3.44*
35.2	35.3	30.46	6.69	23.91	2.95*
40.2	40.4	30.48	6.69	23.93	2.57*
45.1	45.3	30.49	6.71	23.94	2.56*
50.1	50.3	30.50	6.70	23.95	2.52*
60.3	60.5	30.53	6.67	23.97	2.61
70.0	70.3	30.55	6.65	23.99	3.25*
80.0	80.4	30.56	6.66	24.00	1.63*
90.3	90.7	30.57	6.64	24.01	.93*
100.3	100.7	30.57	6.55	24.02	1.93*
110.2	110.7	30.57	6.53	24.02	2.33*
120.1	120.6	30.58	6.43	24.04	.99*
130.1	130.7	30.57	6.35	24.04	2.02*
140.2	140.9	30.61	6.45	24.07	1.82*
150.2	150.9	30.64	6.56	24.07	5.42
160.2	160.9	30.69	6.81	24.09	2.86*
170.3	171.1	30.76	7.06	24.10	2.53*
180.1	181.0	30.80	7.17	24.13	4.81
190.0	190.9	30.88	7.39	24.16	2.71*
200.1	201.0	30.93	7.42	24.19	3.03*
210.2	211.2	30.96	7.43	24.21	1.72*
220.2	221.3	30.97	7.41	24.23	2.70*
230.1	231.2	31.00	7.42	24.24	2.27*
240.1	241.3	31.04	7.46	24.27	3.01*
250.2	251.4	31.06	7.48	24.28	1.27*
260.2	261.5	31.07	7.49	24.29	1.80*
270.3	271.6	31.08	7.51	24.30	2.14*
280.1	281.5	31.10	7.52	24.31	1.89*
290.2	291.7	31.12	7.54	24.32	1.68*
300.2	301.6	31.13	7.56	24.33	1.57*
310.3	311.8	31.14	7.60	24.33	1.44*
320.2	321.8	31.15	7.62	24.34	1.47*
330.1	331.7	31.16	7.63	24.34	1.04*
340.2	341.8	31.17	7.63	24.35	1.03*
360.1	361.9	31.18	7.65	24.35	.90*
380.1	381.9	31.19	7.66	24.36	.82*
400.2	402.1	31.19	7.67	24.36	.63*
420.1	422.1	31.19	7.66	24.36	.94*

MAX DEPTH 434.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 47.90  
 DATE 15/ 3/78  
 TIME (PST) 0312

TAPE CZ0/78/ 4- 20  
 LONG W125 37.00  
 PASS NO. 10  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.55	6.42	22.45	16.79
2.0	2.0	28.86	6.54	22.68	21.14
5.1	5.1	29.52	6.56	23.19	22.02
10.0	10.1	30.09	6.63	23.64	17.56
15.1	15.2	30.38	6.70	23.85	4.93
20.2	20.2	30.41	6.71	23.88	3.96*
25.2	25.3	30.44	6.71	23.90	3.53*
30.1	30.2	30.45	6.70	23.91	3.08*
35.3	35.4	30.48	6.71	23.93	2.72*
40.4	40.5	30.50	6.74	23.94	2.39*
45.2	45.4	30.50	6.74	23.95	2.69*
50.1	50.3	30.52	6.73	23.96	3.17*
60.0	60.3	30.55	6.71	23.99	2.27*
70.2	70.5	30.57	6.68	24.00	2.50*
80.1	80.5	30.57	6.68	24.01	1.88*
90.2	90.6	30.59	6.67	24.02	1.20*
100.1	100.5	30.59	6.61	24.03	3.35*
110.3	110.8	30.60	6.53	24.05	2.13*
120.2	120.8	30.60	6.53	24.05	1.92*
130.3	130.9	30.63	6.53	24.07	4.59*
140.4	141.0	30.68	6.73	24.09	2.89*
150.1	150.8	30.77	7.05	24.12	3.23*
160.2	161.0	30.83	7.17	24.15	2.84*
170.2	171.0	30.88	7.30	24.17	3.07*
180.3	181.2	30.93	7.33	24.21	2.73*
190.1	191.0	30.97	7.38	24.23	2.34*
200.1	201.1	30.99	7.39	24.24	4.89
210.1	211.1	31.02	7.41	24.26	1.71*
220.0	221.1	31.04	7.42	24.28	1.77*
230.1	231.2	31.05	7.44	24.28	1.92*
240.1	241.3	31.07	7.47	24.30	1.63*
250.3	251.5	31.08	7.48	24.30	1.80*
260.2	261.5	31.09	7.49	24.31	1.20*
270.2	271.5	31.11	7.52	24.32	1.66*
280.4	281.8	31.13	7.52	24.33	1.73*
290.1	291.5	31.15	7.57	24.34	2.18*
300.1	301.6	31.16	7.59	24.35	1.52*
310.3	311.8	31.17	7.59	24.35	1.65*
320.2	321.8	31.17	7.60	24.35	1.54*
330.2	331.8	31.17	7.61	24.35	.74*
340.2	341.9	31.17	7.62	24.35	.62*
360.0	361.8	31.18	7.64	24.36	.54*
380.1	382.0	31.19	7.65	24.36	.85*
400.2	402.1	31.20	7.66	24.37	.95*
420.3	422.3	31.20	7.67	24.37	.67*
440.0	442.2	31.20	7.67	24.37	.74*
460.0	462.3	31.20	7.67	24.37	1.02*
480.3	482.6	31.20	7.67	24.37	

MAX DEPTH 488.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 45.10  
 DATE 15/ 3/78  
 TIME (PST) 0359

TAPE CZ0/78/ 4- 21  
 LONG W125 41.00  
 PASS NO. 12  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.03	6.47	22.82	17.22
2.0	2.1	28.77	6.43	22.62	13.28
5.1	5.1	28.87	6.45	22.70	20.01
10.0	10.1	30.00	6.67	23.56	14.43
15.1	15.1	30.26	6.70	23.76	8.56
20.2	20.2	30.40	6.74	23.86	7.27
25.1	25.2	30.48	6.76	23.93	5.37
30.1	30.2	30.51	6.77	23.94	3.08*
35.2	35.4	30.52	6.78	23.96	2.17*
40.1	40.3	30.52	6.76	23.96	1.66*
45.2	45.4	30.53	6.75	23.96	1.77*
50.1	50.3	30.53	6.75	23.96	2.07*
60.1	60.4	30.54	6.77	23.97	3.64*
70.1	70.4	30.55	6.74	23.98	2.09*
80.2	80.6	30.57	6.71	24.00	1.30*
90.2	90.6	30.58	6.69	24.01	2.16*
100.1	100.5	30.59	6.64	24.03	2.12*
110.2	110.7	30.60	6.63	24.03	1.76*
120.2	120.7	30.61	6.66	24.04	4.04*
130.1	130.7	30.63	6.56	24.06	2.67*
140.2	140.9	30.64	6.61	24.07	2.52*
150.1	150.7	30.70	6.82	24.09	2.48*
160.1	160.9	30.73	6.93	24.10	2.50*
170.2	171.0	30.78	7.06	24.12	2.67*
180.1	181.0	30.82	7.12	24.14	3.03*
190.2	191.1	30.87	7.21	24.17	2.79*
200.1	201.0	30.88	7.20	24.18	2.11*
210.0	211.0	30.92	7.23	24.21	2.36*
220.2	221.2	30.96	7.28	24.23	2.71*
230.2	231.3	31.00	7.32	24.26	2.23*
240.0	241.2	31.01	7.34	24.26	1.96*
250.2	251.4	31.04	7.39	24.28	1.92*
260.2	261.4	31.05	7.41	24.29	1.77*
270.0	271.3	31.07	7.44	24.30	1.61*
280.2	281.6	31.07	7.45	24.30	1.50*
290.2	291.6	31.10	7.50	24.32	2.19*
300.1	301.6	31.13	7.54	24.33	1.89*
310.2	311.7	31.14	7.56	24.33	1.34*
320.0	321.6	31.15	7.58	24.34	1.62*
330.2	331.8	31.16	7.60	24.35	1.60*
340.2	341.8	31.17	7.62	24.35	1.05*
360.1	361.9	31.18	7.63	24.36	1.01*
380.1	382.0	31.19	7.64	24.36	.64*
400.0	402.0	31.19	7.65	24.37	.84*
420.1	422.2	31.19	7.65	24.36	.70*
440.1	442.2	31.20	7.66	24.37	+
460.2	462.4	31.19	7.66	24.36	.72*
480.1	482.5	31.20	7.67	24.37	

MAX DEPTH 487.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 41.90  
 DATE 15/ 3/78  
 TIME (PST) 0456

TAPE CZ0/78/ 4- 22  
 LONG W125 43.50  
 PASS NO. 14  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.33	6.43	23.06	14.54
2.0	2.0	29.33	6.43	23.06	4.82*
5.0	5.0	29.49	6.51	23.18	12.14
10.0	10.1	30.20	6.72	23.71	9.74
15.1	15.2	30.32	6.73	23.80	5.61
20.2	20.3	30.42	6.76	23.87	6.94
25.0	25.1	30.46	6.76	23.91	4.51*
30.2	30.3	30.47	6.77	23.91	3.14*
35.0	35.2	30.51	6.79	23.94	2.31*
40.2	40.4	30.52	6.79	23.95	1.97
45.0	45.2	30.52	6.79	23.95	4.04
50.1	50.3	30.54	6.79	23.97	2.88*
60.1	60.4	30.57	6.79	23.99	1.81*
70.1	70.4	30.58	6.79	24.00	1.39*
80.1	80.5	30.58	6.78	24.00	1.53*
90.1	90.5	30.59	6.75	24.01	1.93*
100.0	100.5	30.59	6.70	24.02	2.23*
110.2	110.7	30.60	6.66	24.03	1.00*
120.1	120.6	30.60	6.66	24.03	1.30*
130.1	130.7	30.62	6.61	24.05	3.38*
140.0	140.7	30.64	6.62	24.07	3.22*
150.1	150.8	30.72	6.89	24.10	2.88*
160.1	160.9	30.76	6.94	24.12	2.07*
170.0	170.8	30.79	6.99	24.14	5.99
180.1	181.0	30.85	7.09	24.17	3.54*
190.2	191.1	30.92	7.20	24.21	3.49*
200.2	201.1	30.95	7.25	24.23	1.82*
210.3	211.3	30.95	7.25	24.23	.85*
220.2	221.3	30.96	7.26	24.24	1.43*
230.1	231.2	30.99	7.30	24.25	2.56*
240.1	241.3	31.01	7.35	24.26	2.07*
250.2	251.4	31.03	7.38	24.28	2.36*
260.2	261.4	31.08	7.45	24.30	2.11*
270.1	271.4	31.08	7.45	24.30	.76*
280.0	281.4	31.08	7.46	24.30	1.08*
290.1	291.5	31.09	7.47	24.31	1.55*
300.0	301.5	31.10	7.50	24.32	1.88*
310.2	311.7	31.14	7.55	24.34	2.67*
320.1	321.6	31.16	7.59	24.35	1.69*
330.2	331.8	31.16	7.60	24.35	1.08*
340.2	341.8	31.18	7.62	24.36	.92*
360.3	362.0	31.19	7.63	24.36	.75*
380.0	381.9	31.19	7.64	24.36	.56*
400.1	402.0	31.19	7.64	24.36	.76*

MAX DEPTH 418.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 41.70  
 DATE 15/ 3/78  
 TIME (PST) 0529

TAPE CZ0/78/ 4- 23  
 LONG W125 46.60  
 PASS NO. 16  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.19	6.41	22.96	13.36
2.0	2.1	29.16	6.39	22.93	4.84*
5.2	5.2	29.33	6.48	23.05	12.26
10.1	10.1	30.01	6.68	23.56	11.16
15.1	15.2	30.29	6.76	23.77	7.27
20.2	20.2	30.35	6.76	23.82	3.97*
25.0	25.1	30.35	6.76	23.83	3.66
30.3	30.4	30.41	6.76	23.87	5.98
35.2	35.4	30.50	6.78	23.93	6.00
40.2	40.4	30.51	6.78	23.95	2.74*
45.1	45.3	30.52	6.77	23.95	3.91
50.1	50.3	30.54	6.77	23.97	3.65*
60.2	60.4	30.58	6.80	23.99	1.54*
70.0	70.3	30.58	6.81	23.99	.89*
80.2	80.6	30.60	6.80	24.01	5.01*
90.1	90.5	30.62	6.73	24.03	2.22*
100.4	100.8	30.63	6.75	24.05	4.23
110.1	110.6	30.62	6.63	24.05	2.01*
120.4	120.9	30.63	6.62	24.06	1.71*
130.2	130.8	30.68	6.82	24.07	2.57*
140.0	140.7	30.75	6.90	24.12	4.02
150.1	150.8	30.74	6.90	24.11	+
160.1	160.8	30.76	6.96	24.12	2.30
170.2	171.0	30.81	7.03	24.15	2.42*
180.3	181.1	30.90	7.17	24.20	4.92*
190.2	191.1	30.96	7.26	24.24	4.67*
200.1	201.1	31.01	7.34	24.26	2.20*
210.1	211.1	31.03	7.36	24.28	1.21*
220.3	221.3	31.02	7.37	24.27	.99*
230.1	231.2	31.04	7.38	24.28	1.87*
240.0	241.2	31.08	7.45	24.30	2.06*
250.1	251.3	31.09	7.46	24.31	.95*
260.3	261.6	31.08	7.46	24.31	.48*
270.0	271.3	31.09	7.47	24.31	.48*
280.3	281.7	31.10	7.48	24.31	+
290.3	291.7	31.11	7.50	24.32	4.60
300.1	301.6	31.12	7.53	24.33	1.92*
310.1	311.6	31.14	7.55	24.34	2.16*
320.2	321.8	31.15	7.57	24.34	1.15*
330.3	331.9	31.14	7.57	24.34	+
340.2	341.9	31.15	7.57	24.34	.52*
360.0	361.8	31.16	7.59	24.35	+

MAX DEPTH 361.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 41.60  
 DATE 15/ 3/78  
 TIME (PST) 0602

TAPE CZ0/78/ 4- 24  
 LONG W125 49.30  
 PASS NO. 18  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.43	6.55	23.13	18.26
2.0	2.0	29.64	6.62	23.28	9.75
5.1	5.1	30.02	6.68	23.57	22.67
10.1	10.1	30.24	6.73	23.74	9.99
15.2	15.2	30.41	6.77	23.87	7.94
20.2	20.3	30.46	6.77	23.90	2.83*
25.0	25.1	30.46	6.77	23.91	1.33*
30.2	30.3	30.46	6.77	23.91	1.78*
35.0	35.2	30.46	6.77	23.91	2.29*
40.1	40.3	30.50	6.78	23.93	2.88*
45.0	45.2	30.51	6.79	23.94	3.10*
50.0	50.3	30.53	6.80	23.96	2.71*
60.1	60.3	30.55	6.80	23.98	1.68*
70.1	70.5	30.56	6.81	23.98	1.33*
80.2	80.6	30.56	6.81	23.98	1.08*
90.1	90.5	30.56	6.81	23.98	1.27*
100.2	100.7	30.57	6.82	23.99	1.36*
110.1	110.6	30.59	6.79	24.01	4.35
120.3	120.8	30.60	6.77	24.02	1.65*
130.1	130.7	30.61	6.78	24.03	1.93*
140.1	140.8	30.63	6.78	24.04	3.23
150.3	151.0	30.63	6.76	24.04	2.38*
160.0	160.8	30.63	6.68	24.05	1.40*
170.1	170.9	30.64	6.67	24.06	3.54*
180.2	181.0	30.73	6.89	24.11	3.40*
190.3	191.2	30.80	7.03	24.14	4.29*
200.2	201.1	30.88	7.15	24.19	1.97*
210.1	211.1	30.91	7.18	24.20	2.30*
220.2	221.2	30.95	7.25	24.23	4.08*
230.3	231.4	30.99	7.30	24.25	2.63*
240.4	241.5	31.00	7.36	24.26	1.96*
250.2	251.4	31.03	7.38	24.27	1.92*
260.1	261.3	31.05	7.42	24.29	2.26*
270.2	271.5	31.07	7.45	24.30	1.70*
280.0	281.4	31.08	7.47	24.30	1.49*
290.0	291.4	31.10	7.48	24.32	1.49*
300.1	301.6	31.11	7.51	24.32	1.05*
310.1	311.6	31.11	7.52	24.32	1.37*
320.1	321.7	31.12	7.54	24.32	1.71*
330.1	331.7	31.14	7.56	24.34	+

MAX DEPTH 334.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 41.10  
 DATE 15/ 3/78  
 TIME (PST) 0630

TAPE CZ0/78/ 4- 25  
 LONG W125 51.90  
 PASS NO. 20  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.64	6.62	23.28	15.43
2.1	2.1	29.68	6.57	23.32	4.48*
5.1	5.2	29.81	6.62	23.41	11.31
10.0	10.1	30.11	6.73	23.64	7.18
15.1	15.2	30.23	6.76	23.73	5.34
20.0	20.1	30.37	6.78	23.84	8.83
25.1	25.2	30.48	6.78	23.92	6.80
30.0	30.2	30.50	6.77	23.94	3.15*
35.2	35.4	30.51	6.78	23.94	2.41*
40.1	40.3	30.52	6.78	23.96	2.43*
45.3	45.5	30.52	6.79	23.95	2.21*
50.1	50.3	30.55	6.79	23.97	1.91*
60.2	60.4	30.56	6.80	23.98	.96*
70.0	70.3	30.57	6.81	23.98	1.13*
80.0	80.4	30.57	6.82	23.99	1.81*
90.1	90.5	30.59	6.82	24.00	1.67*
100.1	100.5	30.59	6.82	24.00	.92*
110.1	110.6	30.60	6.82	24.01	1.26*
120.1	120.7	30.60	6.82	24.01	.55*
130.1	130.7	30.60	6.80	24.01	1.48*
140.1	140.7	30.61	6.77	24.03	2.08*
150.2	150.9	30.62	6.75	24.03	1.02*
160.0	160.8	30.63	6.76	24.04	2.12*
170.1	170.9	30.66	6.78	24.06	.60*
180.1	180.9	30.67	6.78	24.07	2.37*
190.3	191.1	30.68	6.81	24.08	2.53*
200.2	201.1	30.70	6.85	24.09	+
210.3	211.2	30.74	6.89	24.11	2.56*
220.0	221.0	30.78	6.97	24.13	4.60
230.1	231.1	30.87	7.13	24.18	3.93
240.2	241.4	30.94	7.24	24.22	4.71*
250.3	251.5	30.96	7.27	24.23	2.79*
260.0	261.3	31.02	7.35	24.27	2.60*
270.0	271.3	31.04	7.39	24.28	2.16*
280.2	281.6	31.06	7.42	24.29	1.94*
290.2	291.6	31.06	7.43	24.29	+
300.0	301.5	31.07	7.45	24.29	1.58*
310.1	311.6	31.08	7.47	24.30	1.75*
320.1	321.7	31.10	7.50	24.32	2.21*

MAX DEPTH 329.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 40.70  
 DATE 15/ 3/78  
 TIME (PST) 0702

TAPE CZ0/78/ 4- 26  
 LONG W125 54.40  
 PASS NO. 22  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.04	6.66	23.59	+
2.0	2.1	30.02	6.66	23.57	1.66
5.1	5.1	30.01	6.66	23.57	+
10.1	10.1	30.02	6.66	23.57	8.29
15.2	15.3	30.26	6.73	23.75	11.41
20.2	20.3	30.37	6.75	23.84	4.51
25.1	25.3	30.41	6.77	23.87	3.63*
30.2	30.4	30.43	6.78	23.88	3.90
35.0	35.2	30.47	6.79	23.92	6.62
40.2	40.3	30.52	6.79	23.95	4.21*
45.2	45.4	30.52	6.79	23.95	2.14*
50.1	50.4	30.54	6.79	23.97	1.97*
60.2	60.4	30.55	6.80	23.97	1.92*
70.1	70.4	30.57	6.81	23.98	1.85*
80.2	80.6	30.59	6.82	24.00	3.65
90.1	90.5	30.59	6.82	24.00	1.29*
100.2	100.7	30.59	6.81	24.01	1.87*
110.3	110.8	30.61	6.79	24.02	1.90*
120.1	120.7	30.62	6.79	24.03	1.84*
130.2	130.8	30.64	6.79	24.04	1.21*
140.0	140.7	30.64	6.81	24.04	1.04*
150.2	150.9	30.67	6.82	24.06	2.76*
160.0	160.8	30.72	6.86	24.10	3.31*
170.0	170.8	30.75	6.95	24.11	2.41*
180.3	181.1	30.78	7.00	24.13	2.07*
190.0	190.9	30.81	7.04	24.15	3.77
200.1	201.1	30.86	7.10	24.18	4.52
210.2	211.2	30.94	7.25	24.22	2.63*
220.2	221.2	30.96	7.27	24.24	1.79*
230.0	231.1	30.97	7.29	24.24	1.20*
240.1	241.3	30.98	7.30	24.25	.91*
250.1	251.3	30.99	7.31	24.25	1.60*
260.1	261.3	31.01	7.34	24.26	2.48*
270.3	271.6	31.04	7.39	24.28	2.81*
280.0	281.4	31.07	7.45	24.30	1.71*
290.1	291.5	31.08	7.46	24.30	.78*
300.3	301.8	31.08	7.47	24.30	1.20*
310.1	311.6	31.09	7.48	24.30	.55*
320.2	321.8	31.09	7.48	24.31	.80*
330.1	331.7	31.09	7.49	24.31	1.01*
340.1	341.8	31.10	7.50	24.31	1.43*
360.3	362.0	31.11	7.52	24.32	+
380.0	381.9	31.11	7.52	24.32	.85*

MAX DEPTH 396.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 15/ 3/78  
 TIME (PST) 0736

TAPE CZ0/78/ 4- 27  
 LONG W125 57.20  
 PASS NO. 24  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.81	6.63	23.42	3.69*
2.1	2.1	29.83	6.64	23.43	5.76*
5.1	5.2	29.97	6.71	23.53	8.87*
10.1	10.1	30.20	6.76	23.70	9.01
15.1	15.2	30.30	6.75	23.79	7.39
20.2	20.3	30.37	6.76	23.84	5.61*
25.2	25.3	30.47	6.79	23.91	5.07*
30.3	30.4	30.49	6.79	23.92	3.06*
35.2	35.4	30.50	6.80	23.93	2.64
40.2	40.4	30.51	6.80	23.94	4.27
45.0	45.2	30.54	6.80	23.96	3.98*
50.2	50.4	30.55	6.81	23.98	3.07*
60.3	60.5	30.58	6.81	24.00	1.98*
70.2	70.6	30.60	6.83	24.01	2.31
80.2	80.5	30.63	6.84	24.03	2.39*
90.0	90.5	30.65	6.85	24.04	1.02*
100.0	100.5	30.65	6.86	24.05	2.15*
110.2	110.7	30.68	6.88	24.06	2.78*
120.2	120.7	30.70	6.87	24.08	2.43*
130.0	130.6	30.73	6.89	24.10	1.52*
140.1	140.8	30.75	6.90	24.11	3.16*
150.1	150.8	30.79	6.99	24.14	2.86*
160.0	160.8	30.84	7.06	24.17	2.28*
170.1	170.9	30.87	7.11	24.18	3.03*
180.1	180.9	30.92	7.21	24.21	2.68*
190.2	191.1	30.98	7.29	24.24	3.22*
200.2	201.2	31.01	7.35	24.26	2.89*
210.3	211.3	31.05	7.42	24.29	1.53*
220.3	221.3	31.06	7.43	24.29	1.25*
230.2	231.3	31.07	7.46	24.30	3.09*
240.1	241.3	31.08	7.46	24.30	3.53*
250.1	251.3	31.08	7.47	24.30	.90*
260.1	261.4	31.09	7.48	24.31	1.28*
270.1	271.4	31.09	7.49	24.31	1.10*
280.2	281.5	31.09	7.50	24.31	1.15*
290.2	291.6	31.10	7.50	24.31	1.00*
300.4	301.8	31.10	7.51	24.31	.69*
310.2	311.7	31.10	7.51	24.31	+
320.0	321.6	31.10	7.51	24.31	.71*
330.1	331.7	31.10	7.51	24.31	1.01*

MAX DEPTH 334.3



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 15/ 3/78  
 TIME (PST) 0800

TAPE CZ0/78/ 4- 28  
 LONG W125 59.50  
 PASS NO. 26  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.07	6.69	23.61	14.73
2.1	2.1	30.06	6.69	23.60	4.16*
5.0	5.0	30.31	6.76	23.79	10.48
10.0	10.1	30.43	6.78	23.88	6.23
15.2	15.2	30.47	6.79	23.91	4.86
20.1	20.2	30.53	6.81	23.96	6.07
25.1	25.2	30.60	6.83	24.01	4.04*
30.2	30.3	30.61	6.81	24.02	1.95*
35.1	35.2	30.61	6.82	24.02	1.53*
40.1	40.3	30.63	6.82	24.03	1.63
45.2	45.4	30.63	6.74	24.05	4.16
50.2	50.4	30.64	6.76	24.05	2.55*
60.1	60.4	30.71	6.84	24.09	2.15*
70.0	70.3	30.71	6.84	24.09	

MAX DEPTH 71.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 39.90  
 DATE 15/ 3/78  
 TIME (PST) 0829

TAPE CZ0/78/ 4- 29  
 LONG W126 4.20  
 PASS NO. 28  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.48	6.71	23.93	1.69*
2.0	2.1	30.48	6.71	23.93	.66*
5.0	5.0	30.48	6.71	23.93	1.74*
10.3	10.4	30.50	6.76	23.94	1.79*
15.0	15.1	30.51	6.76	23.95	1.84*
20.1	20.2	30.53	6.77	23.96	1.66*
25.1	25.2	30.53	6.77	23.96	1.47*
30.1	30.3	30.53	6.78	23.96	1.85*
35.3	35.4	30.55	6.79	23.98	2.25*
40.1	40.2	30.55	6.79	23.98	1.95*
45.2	45.4	30.57	6.79	23.99	1.63*
50.1	50.3	30.56	6.79	23.98	1.39*
60.0	60.3	30.56	6.80	23.98	1.46*
70.1	70.4	30.57	6.81	23.99	1.46*
80.2	80.6	30.58	6.82	24.00	1.14*
90.2	90.6	30.58	6.82	24.00	1.34*
100.3	100.7	30.59	6.84	24.00	1.30*
110.3	110.8	30.61	6.84	24.02	1.34*
120.0	120.6	30.62	6.85	24.02	1.50*
130.3	130.9	30.62	6.84	24.02	2.40
140.0	140.7	30.63	6.83	24.03	+
150.1	150.8	30.64	6.84	24.04	2.93
160.2	160.9	30.65	6.86	24.04	2.49*
170.1	170.9	30.67	6.86	24.06	1.67*
180.1	180.9	30.67	6.87	24.06	1.43*
190.3	191.1	30.68	6.88	24.06	1.09*

MAX DEPTH 198.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 39.20  
 DATE 15/ 3/78  
 TIME (PST) 0943

TAPE CZ0/78/ 4- 30  
 LONG W126 12.50  
 PASS NO. 32  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.51	6.75	23.95	.08*
2.0	2.1	30.52	6.75	23.95	.12*
5.2	5.2	30.52	6.75	23.95	.31*
10.1	10.1	30.51	6.75	23.95	.54*
15.2	15.2	30.51	6.75	23.95	.77*
20.2	20.3	30.51	6.75	23.95	+
25.2	25.3	30.52	6.75	23.95	1.23*
30.1	30.3	30.52	6.76	23.95	1.68*
35.1	35.3	30.53	6.79	23.96	2.14*
40.2	40.4	30.56	6.81	23.98	1.67*
45.0	45.2	30.55	6.83	23.97	1.16*
50.1	50.3	30.56	6.83	23.98	1.32*
60.2	60.4	30.58	6.85	23.99	1.22*
70.2	70.5	30.57	6.85	23.99	1.08*
80.2	80.6	30.58	6.85	23.99	+
90.1	90.5	30.58	6.85	23.99	+
100.4	100.8	30.58	6.85	23.99	+
110.1	110.6	30.59	6.87	24.00	4.46
120.4	120.9	30.61	6.87	24.01	1.84*
130.2	130.8	30.62	6.88	24.02	1.09*
140.3	140.9	30.62	6.88	24.02	.92*
150.4	151.1	30.63	6.89	24.02	1.35*
160.1	160.8	30.63	6.89	24.02	.95*
170.4	171.2	30.63	6.89	24.03	1.09*
180.1	180.9	30.65	6.90	24.04	1.43*

MAX DEPTH 188.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 38.50  
 DATE 15/ 3/78  
 TIME (PST) 1014

TAPE CZ0/78/ 4- 31  
 LONG W126 17.30  
 PASS NO. 34  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.51	6.73	23.95	+
2.0	2.0	30.51	6.74	23.95	.23*
5.2	5.2	30.52	6.74	23.96	.57*
10.2	10.2	30.52	6.74	23.96	1.32*
15.2	15.3	30.52	6.74	23.96	2.08*
20.2	20.3	30.54	6.79	23.96	4.00
25.1	25.2	30.57	6.84	23.99	2.95*
30.1	30.2	30.57	6.86	23.98	1.60*
35.2	35.4	30.58	6.85	23.99	.67*
40.2	40.4	30.59	6.84	24.00	.55*
45.2	45.4	30.58	6.84	23.99	.97*
50.1	50.4	30.58	6.84	24.00	1.06*
60.0	60.3	30.58	6.84	23.99	.67*
70.2	70.5	30.58	6.84	24.00	.64*
80.2	80.5	30.60	6.85	24.00	1.36*
90.1	90.5	30.60	6.88	24.01	3.04
100.1	100.6	30.61	6.86	24.01	1.73*
110.2	110.7	30.61	6.86	24.01	.87*
120.0	120.6	30.61	6.87	24.01	+
130.1	130.7	30.61	6.87	24.01	1.15*
140.3	140.9	30.62	6.86	24.02	.60*
150.2	150.8	30.62	6.86	24.02	.97*
160.3	161.0	30.62	6.87	24.02	.73*
170.3	171.1	30.63	6.87	24.03	.68*
180.0	180.8	30.62	6.87	24.02	.87*
190.3	191.2	30.62	6.87	24.02	2.70
200.1	201.0	30.63	6.87	24.03	+
210.1	211.0	30.63	6.88	24.03	.59*
220.3	221.3	30.64	6.88	24.03	+
230.3	231.3	30.63	6.88	24.03	+
240.0	241.1	30.64	6.89	24.03	+

MAX DEPTH 240.9



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 13 KNIGHT INLET 1978  
 LAT N50 38.10  
 DATE 15/ 3/78  
 TIME (PST) 1124

TAPE CZ0/78/ 4- 32  
 LONG W126 25.20  
 PASS NO. 36  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.57	6.77	23.99	.20*
2.1	2.1	30.57	6.78	24.00	.10*
5.0	5.1	30.57	6.78	24.00	.27*
10.2	10.2	30.57	6.78	23.99	.33*
15.1	15.2	30.57	6.78	23.99	.39*
20.2	20.3	30.58	6.78	24.00	+
25.1	25.2	30.57	6.79	23.99	.52*
30.3	30.4	30.58	6.78	24.00	.44*
35.2	35.3	30.58	6.79	24.00	.36*
40.3	40.4	30.57	6.79	23.99	.38*
45.1	45.3	30.58	6.79	24.00	.39*
50.2	50.5	30.57	6.79	23.99	.45*
60.2	60.5	30.57	6.79	23.99	+
70.2	70.5	30.57	6.80	23.99	3.55
80.2	80.5	30.58	6.80	23.99	.45*
90.3	90.7	30.57	6.80	23.99	.74*
100.4	100.8	30.57	6.80	23.99	+
110.0	110.5	30.58	6.80	24.00	.80*
120.3	120.9	30.58	6.81	24.00	.80*
130.2	130.8	30.59	6.81	24.00	+
140.0	140.6	30.58	6.82	24.00	+
150.2	150.8	30.59	6.82	24.01	2.68
160.2	160.9	30.60	6.85	24.01	.81*
170.1	170.8	30.61	6.85	24.01	.60*
180.2	181.0	30.60	6.85	24.01	.35*
190.2	191.1	30.61	6.85	24.01	.57*
200.1	201.0	30.61	6.86	24.01	.75*
210.1	211.1	30.62	6.87	24.02	.39*
220.1	221.1	30.62	6.87	24.02	.71*
230.1	231.1	30.62	6.88	24.02	1.37*
240.3	241.4	30.62	6.88	24.02	3.53*
250.1	251.3	30.62	6.88	24.02	+

MAX DEPTH 250.9

CRUISE NO. 14



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N51 2.30  
 DATE 19/ 4/78  
 TIME (PST) 0149

TAPE CZ0/78/ 4- 33  
 LONG W125 33.80  
 PASS NO. 34  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	13.10	8.56	10.15	135.58
2.2	2.2	24.56	8.32	19.10	86.72
5.2	5.2	28.59	7.18	22.39	40.81
10.0	10.0	29.72	6.83	23.32	15.14
15.0	15.1	29.98	6.72	23.54	11.73
20.2	20.2	30.15	6.64	23.68	7.97
25.0	25.1	30.22	6.60	23.74	5.60
30.0	30.2	30.26	6.60	23.77	4.96
35.1	35.3	30.29	6.59	23.80	4.24*
40.1	40.2	30.32	6.58	23.82	3.72*
45.1	45.3	30.35	6.55	23.85	3.50*
50.2	50.4	30.37	6.54	23.87	3.37*
60.1	60.4	30.40	6.54	23.89	3.11*
70.2	70.5	30.44	6.53	23.92	2.74*
80.0	80.4	30.46	6.53	23.94	2.56*
90.1	90.5	30.49	6.52	23.96	2.30*
100.0	100.5	30.51	6.51	23.98	2.03*
110.2	110.7	30.51	6.51	23.98	1.59*
120.1	120.6	30.53	6.49	24.00	1.97*
130.1	130.7	30.54	6.47	24.01	2.08*
140.1	140.7	30.57	6.47	24.03	2.43*
150.0	150.7	30.63	6.64	24.06	3.21*
160.1	160.8	30.69	6.78	24.09	3.17*
170.0	170.8	30.77	6.98	24.12	2.99*
180.1	181.0	30.80	7.03	24.14	3.53
190.1	191.0	30.85	7.12	24.17	2.06*
200.2	201.2	30.91	7.25	24.19	
210.0	211.0	30.93	7.30	24.21	

MAX DEPTH 212.5



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 58.90  
 DATE 19/ 4/78  
 TIME (PST) 0115

TAPE CZ0/78/ 4- 34  
 LONG W125 33.20  
 PASS NO. 32  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	12.42	8.52	9.62	132.37
2.1	2.1	21.93	8.68	17.00	107.64
5.2	5.2	28.69	7.24	22.46	50.36
10.2	10.2	29.78	6.79	23.37	13.76
15.2	15.2	29.94	6.70	23.51	8.76
20.2	20.3	30.18	6.81	23.68	8.49
25.1	25.2	30.26	6.75	23.75	7.78
30.1	30.3	30.31	6.75	23.79	4.75*
35.0	35.2	30.33	6.73	23.81	3.99
40.1	40.2	30.35	6.72	23.83	3.61*
45.2	45.4	30.37	6.69	23.85	3.06*
50.1	50.3	30.38	6.69	23.86	2.86*
60.3	60.6	30.41	6.70	23.87	2.62*
70.0	70.3	30.44	6.71	23.90	4.31*
80.2	80.5	30.45	6.66	23.91	2.40*
90.3	90.7	30.48	6.64	23.94	1.94*
100.3	100.7	30.49	6.62	23.95	2.01*
110.0	110.5	30.49	6.53	23.96	2.06*
120.0	120.5	30.51	6.51	23.98	2.10*
130.1	130.7	30.52	6.51	23.99	2.55*
140.1	140.7	30.55	6.46	24.02	2.63*
150.2	150.9	30.58	6.52	24.03	2.88*
160.2	160.9	30.64	6.65	24.06	4.43
170.2	171.0	30.71	6.84	24.09	3.25*
180.2	181.0	30.79	7.06	24.13	3.42*
190.1	191.0	30.81	7.14	24.14	2.79*
200.2	201.1	30.87	7.18	24.17	2.74*
210.2	211.2	30.92	7.27	24.20	2.76*
220.3	221.3	30.96	7.36	24.23	2.39*
230.0	231.1	30.99	7.39	24.24	2.25*
240.1	241.2	31.01	7.41	24.25	1.92*
250.1	251.3	31.02	7.43	24.26	1.77*
260.3	261.5	31.04	7.45	24.27	1.71*
270.1	271.4	31.05	7.46	24.28	1.11*
280.1	281.4	31.06	7.47	24.29	

MAX DEPTH 283.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 54.30  
 DATE 19/ 4/78  
 TIME (PST) 0025

TAPE CZ0/78/ 4- 35  
 LONG W125 32.80  
 PASS NO. 29  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	18.94	9.00	14.64	110.36
2.1	2.1	27.22	7.64	21.26	63.84
5.0	5.0	29.16	7.10	22.85	34.65
10.1	10.1	29.88	6.91	23.43	13.13
15.2	15.3	30.07	6.83	23.59	6.62
20.0	20.1	30.22	6.87	23.70	6.85
25.0	25.2	30.30	6.90	23.77	4.69
30.0	30.2	30.35	6.91	23.80	3.95*
35.1	35.3	30.38	6.91	23.83	3.47*
40.1	40.2	30.39	6.91	23.83	3.01*
45.0	45.2	30.40	6.90	23.85	2.87*
50.1	50.3	30.42	6.88	23.86	2.83*
60.1	60.4	30.44	6.86	23.88	3.47*
70.2	70.5	30.46	6.77	23.91	4.46*
80.1	80.4	30.47	6.76	23.92	3.52
90.0	90.4	30.48	6.73	23.93	2.23*
100.2	100.7	30.50	6.71	23.95	3.01
110.3	110.7	30.52	6.67	23.97	2.11*
120.0	120.6	30.53	6.64	23.98	2.22*
130.1	130.7	30.54	6.61	23.99	2.17*
140.1	140.7	30.54	6.49	24.01	2.77*
150.2	150.9	30.57	6.46	24.03	2.88*
160.3	161.0	30.61	6.55	24.05	2.70*
170.2	170.9	30.67	6.76	24.07	3.34
180.1	180.9	30.78	7.10	24.12	3.34*
190.1	191.0	30.85	7.26	24.15	3.09*
200.2	201.2	30.89	7.33	24.17	2.60*
210.1	211.1	30.92	7.37	24.19	2.02*
220.3	221.4	30.95	7.40	24.21	3.85*
230.1	231.2	30.98	7.41	24.23	2.30*
240.1	241.2	31.00	7.43	24.24	2.25*
250.1	251.3	31.02	7.45	24.26	2.04*
260.0	261.3	31.03	7.46	24.27	1.78*
270.2	271.5	31.05	7.47	24.28	1.67*
280.2	281.6	31.06	7.48	24.28	1.51*
290.1	291.5	31.07	7.49	24.29	1.52*
300.1	301.5	31.08	7.50	24.30	1.63*
310.1	311.6	31.09	7.51	24.31	1.72*
320.3	321.9	31.11	7.53	24.32	1.59*
330.1	331.7	31.13	7.55	24.33	4.99
340.1	341.8	31.14	7.56	24.34	1.63*
360.1	361.8	31.16	7.61	24.34	1.04*
380.1	382.0	31.17	7.62	24.35	.95*
400.1	402.1	31.18	7.63	24.35	

MAX DEPTH 402.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 52.40  
 DATE 18/ 4/78  
 TIME (PST) 2325

TAPE CZ0/78/ 4- 36  
 LONG W125 38.50  
 PASS NO. 27  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	25.30	8.05	19.71	30.81
2.1	2.1	26.92	7.90	21.00	45.70
5.1	5.2	29.23	7.21	22.89	27.69
10.2	10.3	29.79	6.94	23.36	9.73
15.2	15.2	30.07	6.92	23.58	10.66
20.1	20.2	30.25	6.92	23.72	4.94
25.1	25.2	30.31	6.96	23.76	5.07
30.2	30.4	30.38	6.94	23.82	6.34*
35.1	35.3	30.39	6.96	23.83	3.39*
40.1	40.2	30.41	6.95	23.84	3.41*
45.3	45.5	30.43	6.92	23.86	3.48*
50.2	50.4	30.45	6.89	23.88	3.06*
60.2	60.4	30.46	6.86	23.90	2.65*
70.3	70.6	30.49	6.83	23.92	2.46*
80.2	80.6	30.50	6.80	23.94	2.15*
90.0	90.5	30.50	6.76	23.94	2.03*
100.2	100.6	30.52	6.72	23.96	2.12*
110.0	110.5	30.53	6.68	23.97	2.27*
120.2	120.8	30.54	6.64	23.99	2.39*
130.3	130.9	30.56	6.58	24.01	2.61*
140.1	140.8	30.57	6.54	24.03	2.85*
150.1	150.8	30.63	6.61	24.06	4.78
160.1	160.8	30.71	6.79	24.10	3.66
170.0	170.8	30.79	7.06	24.13	3.32*
180.2	181.1	30.84	7.21	24.15	2.90
190.0	190.9	30.90	7.31	24.18	2.96*
200.3	201.2	30.93	7.32	24.20	2.93*
210.2	211.2	30.96	7.37	24.22	2.50*
220.1	221.2	31.00	7.41	24.24	2.31*
230.2	231.3	31.02	7.44	24.26	2.11*
240.1	241.3	31.04	7.45	24.27	1.44*
250.2	251.4	31.04	7.46	24.27	1.60*
260.2	261.4	31.06	7.47	24.29	1.46*
270.2	271.5	31.07	7.48	24.29	1.43*
280.3	281.6	31.08	7.50	24.30	1.66*
290.1	291.5	31.09	7.51	24.30	1.69*
300.0	301.5	31.11	7.54	24.31	1.62*
310.3	311.8	31.12	7.56	24.32	1.74*
320.2	321.7	31.13	7.57	24.33	1.43*
330.1	331.7	31.14	7.58	24.33	1.48*
340.0	341.7	31.15	7.60	24.34	.95*
360.1	361.9	31.16	7.61	24.35	1.27*
380.0	381.9	31.17	7.62	24.35	.63*
400.2	402.1	31.18	7.63	24.35	.74*
420.2	422.2	31.17	7.64	24.35	.80*
440.1	442.2	31.18	7.64	24.35	1.14*
460.1	462.4	31.18	7.64	24.36	1.05*
480.0	482.4	31.18	7.65	24.36	

MAX DEPTH 486.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 47.90  
 DATE 18/ 4/78  
 TIME (PST) 2230

TAPE CZ0/78/ 4- 37  
 LONG W125 37.00  
 PASS NO. 25  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	21.72	8.66	16.84	22.68
2.1	2.1	22.33	8.60	17.33	39.40
5.1	5.2	29.34	7.22	22.97	65.99
10.0	10.0	30.04	7.03	23.55	11.52
15.2	15.3	30.15	7.01	23.64	9.95
20.1	20.2	30.24	7.02	23.70	6.20
25.1	25.2	30.29	6.97	23.75	5.08*
30.2	30.3	30.32	6.95	23.77	4.27
35.2	35.3	30.36	6.99	23.80	5.25
40.2	40.4	30.38	7.00	23.81	3.66*
45.1	45.3	30.39	6.98	23.83	3.38*
50.2	50.4	30.41	6.89	23.86	3.51*
60.1	60.4	30.45	6.91	23.88	2.54*
70.3	70.6	30.46	6.85	23.90	2.52*
80.1	80.5	30.50	6.83	23.93	2.72*
90.2	90.6	30.51	6.78	23.94	1.63*
100.2	100.7	30.52	6.76	23.95	1.64*
110.2	110.7	30.53	6.73	23.97	1.90*
120.1	120.6	30.54	6.67	23.98	2.36*
130.1	130.7	30.55	6.60	24.00	2.53*
140.0	140.7	30.56	6.54	24.01	3.56*
150.3	151.0	30.58	6.51	24.04	2.06*
160.1	160.8	30.62	6.55	24.06	3.04*
170.0	170.8	30.75	6.89	24.12	7.93*
180.1	181.0	30.80	7.05	24.14	3.03*
190.1	191.0	30.84	7.12	24.16	2.58*
200.2	201.2	30.89	7.22	24.18	2.85*
210.3	211.3	30.93	7.25	24.22	3.94
220.2	221.2	30.97	7.30	24.24	2.24*
230.2	231.3	30.99	7.33	24.25	2.04*
240.2	241.3	31.01	7.35	24.26	2.04*
250.1	251.3	31.03	7.41	24.27	1.31*
260.2	261.4	31.04	7.42	24.28	1.57*
270.3	271.6	31.05	7.44	24.29	1.39*
280.0	281.4	31.06	7.46	24.29	1.51*
290.2	291.6	31.07	7.46	24.30	1.58*
300.1	301.5	31.08	7.48	24.30	1.46*
310.2	311.7	31.09	7.50	24.31	1.52*
320.3	321.8	31.12	7.54	24.32	1.77*
330.2	331.8	31.13	7.56	24.33	1.12*
340.0	341.7	31.13	7.57	24.33	.91*
360.1	361.8	31.15	7.60	24.34	1.48*
380.0	381.9	31.17	7.61	24.35	1.23*
400.1	402.1	31.17	7.62	24.35	1.02*
420.2	422.3	31.18	7.63	24.36	.76*
440.1	442.2	31.18	7.64	24.36	.80*
460.0	462.3	31.18	7.64	24.36	.56*
480.1	482.4	31.19	7.65	24.36	.62*

MAX DEPTH 494.7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 45.10  
 DATE 18/ 4/78  
 TIME (PST) 2137

TAPE CZ0/78/ 4- 38  
 LONG W125 41.00  
 PASS NO. 23  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	22.59	8.29	17.57	60.90
2.2	2.2	26.22	7.82	20.46	57.62
5.0	5.0	29.41	7.24	23.02	23.73
10.0	10.1	29.57	7.19	23.16	13.22
15.2	15.3	30.00	7.07	23.51	8.81
20.2	20.2	30.23	7.03	23.69	9.85*
25.2	25.3	30.32	7.03	23.77	5.80*
30.1	30.3	30.35	7.03	23.79	4.50*
35.1	35.3	30.38	7.03	23.81	3.27*
40.1	40.3	30.40	7.04	23.82	3.37*
45.1	45.3	30.43	7.02	23.85	3.50*
50.0	50.2	30.43	7.00	23.86	3.55*
60.1	60.4	30.49	6.93	23.91	2.18*
70.1	70.4	30.49	6.92	23.91	.81*
80.0	80.4	30.49	6.92	23.91	1.64*
90.1	90.5	30.50	6.88	23.93	2.06*
100.1	100.5	30.52	6.81	23.95	2.23*
110.0	110.5	30.52	6.80	23.95	1.66*
120.2	120.8	30.53	6.80	23.96	1.99*
130.2	130.8	30.55	6.74	23.98	2.14*
140.1	140.7	30.55	6.69	23.98	4.20
150.2	150.9	30.56	6.64	24.01	2.70*
160.2	160.9	30.60	6.56	24.04	3.59*
170.1	170.9	30.66	6.73	24.07	3.23*
180.1	180.9	30.72	6.87	24.10	2.43*
190.1	190.9	30.74	6.90	24.11	3.64
200.1	201.1	30.81	7.03	24.15	3.29*
210.1	211.1	30.84	7.10	24.17	2.78*
220.1	221.2	30.90	7.17	24.20	4.04
230.2	231.3	30.92	7.22	24.21	3.38
240.0	241.2	30.98	7.30	24.24	2.00*
250.2	251.4	31.00	7.33	24.26	2.30*
260.0	261.3	31.02	7.36	24.27	1.45*
270.0	271.3	31.03	7.39	24.27	1.41*
280.1	281.5	31.05	7.41	24.29	1.74*
290.2	291.6	31.06	7.43	24.29	1.52*
300.2	301.7	31.07	7.45	24.30	1.82*
310.3	311.8	31.08	7.47	24.30	1.40*
320.0	321.6	31.09	7.49	24.31	1.41*
330.3	331.9	31.11	7.51	24.32	1.89*
340.1	341.7	31.12	7.54	24.32	1.52*
360.3	362.0	31.15	7.59	24.34	1.50*
380.1	381.9	31.17	7.61	24.35	1.39*
400.1	402.1	31.18	7.62	24.36	.90*
420.2	422.2	31.18	7.63	24.36	.87*
440.2	442.3	31.18	7.64	24.35	.84*

MAX DEPTH 458.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 41.90  
 DATE 18/ 4/78  
 TIME (PST) 2050

TAPE CZ0/78/ 4- 39  
 LONG W125 43.50  
 PASS NO. 21  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	25.85	7.99	20.15	+
2.1	2.1	25.95	8.03	20.22	45.15
5.2	5.2	29.58	7.25	23.16	20.13
10.0	10.0	29.95	7.13	23.46	13.41
15.1	15.2	30.14	7.10	23.61	9.87*
20.2	20.2	30.29	7.09	23.73	6.35*
25.0	25.2	30.33	7.08	23.76	4.81*
30.1	30.2	30.36	7.07	23.79	4.68
35.2	35.3	30.40	7.04	23.82	4.35*
40.2	40.4	30.40	7.03	23.83	2.89
45.1	45.3	30.43	7.00	23.86	4.84
50.1	50.4	30.46	6.98	23.88	3.03*
60.1	60.3	30.48	6.99	23.89	3.01*
70.2	70.5	30.51	6.98	23.92	2.93*
80.1	80.5	30.52	6.96	23.93	1.81*
90.0	90.4	30.53	6.94	23.94	1.98*
100.1	100.6	30.54	6.91	23.95	1.74*
110.1	110.6	30.55	6.91	23.96	1.49*
120.2	120.8	30.56	6.91	23.97	1.70*
130.2	130.8	30.57	6.73	24.00	4.23*
140.2	140.8	30.58	6.63	24.02	2.75*
150.2	150.9	30.61	6.70	24.03	2.96*
160.1	160.9	30.65	6.73	24.06	3.38*
170.2	171.0	30.72	6.89	24.09	3.37*
180.1	181.0	30.79	7.00	24.14	4.77
190.0	190.9	30.87	7.14	24.18	3.20*
200.1	201.1	30.89	7.19	24.19	2.15*
210.1	211.1	30.93	7.23	24.21	2.36*
220.1	221.2	30.96	7.29	24.23	2.13*
230.0	231.1	30.98	7.30	24.25	2.03*
240.0	241.2	31.00	7.34	24.25	1.85*
250.2	251.4	31.00	7.34	24.26	1.18*
260.2	261.4	31.01	7.36	24.26	2.96
270.2	271.5	31.02	7.38	24.27	1.66*
280.2	281.6	31.04	7.41	24.28	1.51*
290.1	291.4	31.05	7.42	24.28	.97*
300.0	301.5	31.06	7.43	24.29	1.64*
310.2	311.7	31.07	7.45	24.29	1.88*
320.2	321.7	31.09	7.48	24.31	2.03*
330.2	331.8	31.13	7.54	24.33	2.13*
340.0	341.7	31.15	7.57	24.34	1.34*
360.2	362.0	31.16	7.59	24.35	.86*
380.1	381.9	31.17	7.60	24.35	.88*
400.1	402.1	31.16	7.61	24.35	.75*
420.1	422.1	31.17	7.61	24.35	+

MAX DEPTH 420.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 41.70  
 DATE 18/ 4/78  
 TIME (PST) 2019

TAPE CZ0/78/ 4- 40  
 LONG W125 46.60  
 PASS NO. 19  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.90	8.05	19.39	23.54
2.1	2.1	26.13	7.94	20.37	45.82
5.1	5.1	29.72	7.21	23.27	38.99
10.1	10.1	30.18	7.10	23.64	10.35*
15.1	15.2	30.25	7.10	23.70	6.27
20.1	20.1	30.35	7.09	23.78	6.00
25.1	25.2	30.40	7.05	23.82	5.67*
30.1	30.3	30.44	7.05	23.85	3.56*
35.0	35.2	30.44	7.04	23.86	3.40*
40.2	40.4	30.47	7.02	23.88	3.49
45.1	45.3	30.48	7.00	23.90	4.95
50.2	50.5	30.51	6.99	23.92	3.37*
60.2	60.4	30.53	6.97	23.93	2.96*
70.1	70.4	30.55	6.94	23.96	1.54*
80.0	80.4	30.55	6.92	23.96	1.61*
90.3	90.7	30.55	6.86	23.97	1.69*
100.2	100.7	30.56	6.80	23.98	1.94*
110.2	110.7	30.58	6.79	24.00	1.90*
120.1	120.6	30.60	6.80	24.01	2.49*
130.1	130.7	30.63	6.77	24.04	2.97*
140.1	140.7	30.69	6.88	24.07	3.04*
150.2	150.9	30.73	6.96	24.09	2.27*
160.1	160.9	30.77	7.02	24.12	2.93*
170.1	170.9	30.79	7.05	24.13	3.23*
180.1	180.9	30.87	7.13	24.18	3.39*
190.1	191.0	30.91	7.22	24.20	3.47*
200.2	201.1	30.95	7.27	24.23	2.16*
210.2	211.3	30.97	7.30	24.24	1.71*
220.2	221.3	30.99	7.32	24.25	2.29*
230.0	231.1	31.01	7.36	24.26	1.58*
240.2	241.4	31.01	7.36	24.26	2.14*
250.2	251.4	31.05	7.42	24.29	1.91*
260.3	261.5	31.06	7.44	24.29	.95*
270.1	271.5	31.07	7.44	24.30	1.04*
280.1	281.4	31.08	7.46	24.30	1.78*
290.2	291.6	31.09	7.49	24.31	1.71*
300.2	301.6	31.11	7.51	24.32	1.42*
310.1	311.6	31.11	7.52	24.32	1.44*
320.2	321.8	31.11	7.52	24.32	+
330.2	331.8	31.12	7.53	24.33	1.09*
340.0	341.7	31.13	7.54	24.33	+

MAX DEPTH 340.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 41.60  
 DATE 18/ 4/78  
 TIME (PST) 1947

TAPE CZ0/78/ 4- 41  
 LONG W125 49.30  
 PASS NO. 17  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.04	7.85	21.09	69.02
2.1	2.1	28.75	7.46	22.48	46.23
5.1	5.1	29.70	7.26	23.25	18.88
10.1	10.2	29.95	7.17	23.45	10.10
15.3	15.3	30.16	7.15	23.63	10.26
20.2	20.3	30.28	7.10	23.72	4.85
25.1	25.2	30.36	7.08	23.79	5.29
30.1	30.3	30.38	7.08	23.80	3.64*
35.0	35.2	30.40	7.06	23.83	4.78
40.1	40.3	30.44	7.05	23.85	4.68
45.0	45.2	30.46	7.03	23.87	3.33*
50.1	50.3	30.47	7.03	23.88	2.79*
60.3	60.6	30.51	6.99	23.92	3.07*
70.0	70.3	30.54	6.97	23.94	2.39*
80.2	80.6	30.54	6.86	23.96	2.77*
90.0	90.4	30.55	6.82	23.97	1.80*
100.2	100.6	30.57	6.83	23.99	2.07*
110.1	110.6	30.58	6.83	23.99	2.09*
120.2	120.8	30.60	6.74	24.02	3.83
130.3	130.9	30.65	6.80	24.06	3.94*
140.2	140.9	30.71	6.93	24.08	1.78*
150.2	150.9	30.74	6.98	24.10	3.61*
160.1	160.8	30.80	7.07	24.13	1.42*
170.1	170.9	30.80	7.07	24.14	2.95*
180.1	180.9	30.86	7.15	24.17	1.94*
190.3	191.2	30.91	7.20	24.20	3.67*
200.1	201.0	30.94	7.26	24.22	2.58*
210.0	211.0	30.98	7.31	24.24	2.33*
220.3	221.3	31.00	7.34	24.25	2.30*
230.1	231.2	31.02	7.37	24.27	1.76*
240.1	241.3	31.03	7.39	24.27	1.45*
250.3	251.5	31.04	7.40	24.28	1.11*
260.1	261.4	31.04	7.40	24.28	1.54*
270.2	271.5	31.05	7.42	24.29	1.70*
280.3	281.6	31.06	7.44	24.29	1.24*
290.1	291.5	31.07	7.45	24.30	1.50*
300.0	301.5	31.08	7.47	24.30	1.24*
310.2	311.7	31.09	7.49	24.31	1.17*
320.1	321.6	31.10	7.50	24.31	+

MAX DEPTH 325.9



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1973  
 LAT N50 41.10  
 DATE 18/ 4/78  
 TIME (PST) 1914

TAPE CZ0/78/ 4- 42  
 LONG W125 51.90  
 PASS NO. 15  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	19.78	7.47	15.47	37.25*
2.1	2.1	28.29	7.49	22.12	33.60*
5.1	5.2	29.37	7.39	22.98	28.13*
10.0	10.1	30.07	7.20	23.55	18.16
15.2	15.3	30.29	7.13	23.73	9.18
20.1	20.1	30.36	7.09	23.78	5.67*
25.1	25.2	30.37	7.09	23.80	4.56*
30.1	30.3	30.43	7.05	23.85	3.95*
35.0	35.2	30.44	7.04	23.86	3.55*
40.2	40.4	30.48	7.02	23.89	3.09*
45.0	45.2	30.50	7.01	23.90	2.85*
50.1	50.3	30.50	7.01	23.91	2.68*
60.1	60.3	30.53	7.00	23.93	2.27*
70.1	70.4	30.54	6.97	23.94	1.90*
80.0	80.4	30.55	6.97	23.95	1.52*
90.1	90.5	30.55	6.96	23.95	1.06*
100.0	100.5	30.55	6.95	23.95	.93*
110.1	110.6	30.56	6.94	23.96	1.57*
120.0	120.6	30.56	6.80	23.98	1.88*
130.1	130.7	30.57	6.76	24.00	2.16*
140.1	140.7	30.62	6.84	24.02	3.73
150.2	150.9	30.70	6.95	24.07	3.07*
160.2	161.0	30.75	6.99	24.11	3.80
170.2	171.0	30.83	7.09	24.16	3.45*
180.2	181.0	30.90	7.18	24.20	3.83*
190.2	191.1	30.93	7.25	24.21	2.49*
200.0	201.0	30.96	7.28	24.23	2.72*
210.2	211.2	30.98	7.32	24.24	2.38*
220.2	221.2	31.01	7.35	24.26	1.30*
230.2	231.3	31.02	7.37	24.27	2.65*
240.2	241.3	31.04	7.40	24.28	1.44*
250.2	251.5	31.06	7.42	24.29	1.63*
260.1	261.4	31.06	7.44	24.29	1.34*
270.0	271.4	31.07	7.45	24.30	1.20*
280.1	281.4	31.07	7.47	24.30	1.43*
290.2	291.6	31.09	7.48	24.31	1.10*
300.2	301.6	31.09	7.48	24.31	.75*
310.0	311.5	31.09	7.49	24.30	.72*
320.1	321.6	31.09	7.49	24.31	+

MAX DEPTH 325.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 40.70  
 DATE 18/ 4/78  
 TIME (PST) 1839

TAPE CZ0/78/ 4- 43  
 LONG W125 54.40  
 PASS NO. 13  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	26.48	7.86	20.65	8.62
2.1	2.1	27.25	7.73	21.27	31.66
5.1	5.1	29.08	7.47	22.74	28.85
10.0	10.0	30.09	7.20	23.56	10.61
15.1	15.1	30.25	7.14	23.69	5.60
20.2	20.3	30.32	7.11	23.75	5.43*
25.1	25.2	30.34	7.12	23.77	4.72*
30.1	30.2	30.38	7.10	23.80	4.53*
35.0	35.2	30.40	7.07	23.82	4.34*
40.2	40.4	30.44	7.05	23.86	3.79*
45.1	45.3	30.46	7.05	23.87	3.23*
50.1	50.4	30.48	7.04	23.89	3.50*
60.1	60.4	30.53	7.02	23.93	2.51*
70.1	70.4	30.53	7.02	23.93	1.20*
80.2	80.6	30.54	7.01	23.94	1.39*
90.2	90.6	30.54	7.00	23.94	1.39*
100.1	100.6	30.55	6.99	23.95	1.31*
110.3	110.8	30.56	6.97	23.96	1.76*
120.1	120.7	30.58	6.96	23.97	1.82*
130.2	130.8	30.58	6.85	23.99	1.94*
140.1	140.8	30.63	6.95	24.01	2.71*
150.0	150.7	30.64	6.91	24.03	3.39*
160.1	160.8	30.72	6.97	24.09	4.02
170.0	170.8	30.79	7.05	24.13	2.84
180.2	181.0	30.86	7.14	24.17	3.40*
190.3	191.2	30.88	7.17	24.19	2.38*
200.2	201.1	30.91	7.21	24.20	2.66*
210.0	211.0	30.94	7.26	24.22	4.10*
220.1	221.2	30.97	7.30	24.24	1.47*
230.3	231.4	30.97	7.30	24.24	.96*
240.1	241.2	30.98	7.32	24.25	1.47*
250.2	251.4	31.00	7.34	24.26	1.71*
260.1	261.3	31.02	7.37	24.27	1.79*
270.1	271.4	31.03	7.39	24.27	1.29*
280.1	281.4	31.04	7.39	24.28	1.16*
290.1	291.5	31.05	7.41	24.28	1.73*
300.2	301.7	31.07	7.45	24.30	1.55*
310.1	311.6	31.08	7.47	24.30	1.23*
320.1	321.6	31.09	7.48	24.31	1.05*
330.1	331.7	31.09	7.48	24.31	.90*
340.2	341.9	31.09	7.49	24.31	.93*
360.1	361.9	31.10	7.49	24.31	.48*
380.0	381.8	31.10	7.50	24.31	.71*
400.1	402.1	31.10	7.51	24.31	.82*

MAX DEPTH 413.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 18/ 4/78  
 TIME (PST) 1804

TAPE CZ0/78/ 4- 44  
 LONG W125 57.20  
 PASS NO. 11  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	26.64	7.87	20.77	30.73
2.1	2.1	27.56	7.74	21.51	29.22
5.1	5.2	28.63	7.54	22.38	23.01
10.1	10.2	29.67	7.32	23.21	23.30
15.1	15.1	30.06	7.18	23.54	7.13
20.2	20.3	30.23	7.14	23.68	5.60*
25.0	25.2	30.27	7.14	23.71	5.05*
30.0	30.2	30.32	7.14	23.75	5.11*
35.3	35.5	30.37	7.08	23.80	5.18*
40.1	40.2	30.41	7.08	23.83	4.83*
45.2	45.4	30.43	7.05	23.85	4.48*
50.3	50.5	30.48	7.02	23.89	4.10
60.0	60.3	30.53	7.04	23.93	2.78*
70.1	70.4	30.55	7.02	23.94	1.19*
80.2	80.6	30.54	7.02	23.94	1.08*
90.2	90.7	30.56	7.01	23.95	3.14*
100.3	100.8	30.57	7.01	23.96	2.14*
110.1	110.6	30.59	6.99	23.98	2.68*
120.2	120.7	30.62	7.02	24.00	1.22*
130.3	130.9	30.61	7.01	24.00	1.09*
140.2	140.8	30.62	7.03	24.00	+
150.2	150.9	30.63	6.98	24.01	1.57*
160.4	161.1	30.64	6.97	24.02	1.23*
170.2	171.0	30.65	6.98	24.03	2.02*
180.2	181.0	30.68	6.96	24.05	4.58
190.2	191.1	30.73	6.98	24.10	3.41*
200.0	201.0	30.78	7.03	24.12	3.21*
210.3	211.3	30.80	7.05	24.14	2.35*
220.2	221.2	30.86	7.14	24.17	2.62*
230.3	231.4	30.88	7.16	24.18	2.82*
240.3	241.4	30.93	7.23	24.22	2.39*
250.2	251.4	30.97	7.30	24.24	2.71*
260.2	261.4	31.00	7.33	24.26	2.33*
270.2	271.5	31.04	7.40	24.28	1.83*
280.0	281.4	31.05	7.42	24.29	1.58*
290.2	291.6	31.06	7.44	24.29	.68*
300.2	301.7	31.08	7.46	24.30	.94*
310.4	311.9	31.08	7.46	24.30	.95*
320.3	321.8	31.08	7.47	24.30	.72*
330.0	331.6	31.08	7.47	24.30	.97*

MAX DEPTH 337.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 18/ 4/78  
 TIME (PST) 1731

TAPE CZ0/78/ 4- 45  
 LONG W125 59.50  
 PASS NO. 9  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.20	7.80	21.22	1.24
2.1	2.1	27.39	7.76	21.38	18.47
5.0	5.0	28.26	7.55	22.08	39.94
10.1	10.1	30.02	7.21	23.50	5.70
15.0	15.1	30.11	7.19	23.58	6.81
20.1	20.2	30.18	7.17	23.64	7.51*
25.3	25.4	30.41	7.07	23.83	7.66*
30.1	30.2	30.42	7.06	23.84	4.55*
35.0	35.2	30.44	7.05	23.85	2.84*
40.1	40.3	30.44	7.05	23.85	3.37*
45.1	45.3	30.45	7.05	23.86	3.64*
50.2	50.4	30.52	7.01	23.92	3.44*
60.1	60.4	30.55	7.00	23.95	+

MAX DEPTH 66.6

CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 39.90  
 DATE 18/ 4/78  
 TIME (PST) 1623

TAPE CZ0/78/ 4- 46  
 LONG W126 4.20  
 PASS NO. 7  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.93	7.61	21.82	+
2.1	2.1	27.97	7.60	21.86	25.13
5.1	5.1	29.67	7.30	23.22	23.00
10.1	10.1	30.20	7.17	23.65	11.52*
15.2	15.2	30.30	7.16	23.73	6.82*
20.2	20.3	30.35	7.20	23.77	5.34
25.0	25.1	30.38	7.19	23.79	4.73*
30.1	30.2	30.41	7.17	23.82	4.52*
35.0	35.2	30.47	7.06	23.88	4.43*
40.2	40.4	30.51	7.09	23.90	3.65*
45.1	45.3	30.51	7.03	23.91	2.31*
50.1	50.4	30.52	7.03	23.92	3.11
60.0	60.3	30.57	7.05	23.95	2.12*
70.1	70.5	30.55	7.01	23.95	1.31*
80.0	80.4	30.59	7.11	23.96	.53*
90.2	90.6	30.61	7.09	23.98	2.51*
100.0	100.5	30.62	7.12	23.99	2.35*
110.3	110.8	30.67	7.23	24.01	3.10*
120.2	120.7	30.69	7.27	24.02	.95*
130.0	130.6	30.71	7.30	24.03	2.25*
140.0	140.7	30.72	7.32	24.04	1.71
150.2	150.9	30.74	7.35	24.05	2.05*
160.1	160.8	30.75	7.35	24.06	1.17*
170.2	170.9	30.76	7.35	24.07	2.25*
180.1	181.0	30.78	7.37	24.08	

MAX DEPTH 183.0



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 39.20  
 DATE 18/ 4/78  
 TIME (PST) 1535

TAPE CZ0/78/ 4- 47  
 LONG W126 12.50  
 PASS NO. 5  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
1.0	1.0	27.96	7.80	21.81	28.85*
2.1	2.1	27.93	7.75	21.80	9.22*
5.1	5.1	28.21	7.64	22.04	23.07*
10.0	10.0	29.88	7.29	23.38	17.29*
15.1	15.1	30.18	7.18	23.63	11.50*
20.0	20.1	30.36	7.25	23.77	8.03
25.1	25.2	30.41	7.25	23.81	4.87*
30.3	30.4	30.44	7.25	23.83	4.21
35.0	35.2	30.48	7.25	23.86	4.74*
40.2	40.4	30.52	7.26	23.89	4.18*
45.0	45.2	30.55	7.24	23.92	3.40*
50.1	50.4	30.57	7.26	23.93	2.95
60.3	60.6	30.59	7.25	23.95	2.55*
70.0	70.3	30.60	7.24	23.96	1.25*
80.0	80.4	30.61	7.25	23.96	.80*
90.1	90.5	30.61	7.24	23.97	.97*
100.2	100.7	30.63	7.24	23.98	3.36*
110.1	110.6	30.64	7.25	23.99	2.00*
120.3	120.8	30.67	7.30	24.00	2.37*
130.3	130.9	30.70	7.32	24.02	3.61*
140.3	140.9	30.77	7.38	24.07	3.17*
150.0	150.7	30.80	7.40	24.09	1.49*
160.2	161.0	30.80	7.40	24.09	1.00*
170.2	170.9	30.80	7.40	24.09	+
180.3	181.1	30.81	7.40	24.10	1.68*
190.0	190.9	30.82	7.41	24.11	1.60*
200.2	201.2	30.83	7.42	24.12	1.47*
210.1	211.1	30.84	7.43	24.12	+

MAX DEPTH 216.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 38.50  
 DATE 18/ 4/78  
 TIME (PST) 1504

TAPE CZ0/78/ 4- 48  
 LONG W126 17.30  
 PASS NO. 3  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.11	7.83	21.15	36.37
2.1	2.1	27.28	7.81	21.29	9.35*
5.0	5.0	27.90	7.74	21.78	23.41
10.0	10.0	29.70	7.44	23.23	10.44
15.2	15.3	30.28	7.33	23.70	8.78
20.0	20.1	30.38	7.32	23.78	6.54
25.0	25.1	30.46	7.31	23.83	6.31
30.1	30.2	30.50	7.30	23.87	3.81*
35.1	35.3	30.52	7.30	23.88	3.14*
40.2	40.4	30.53	7.30	23.89	3.00*
45.3	45.5	30.54	7.29	23.90	2.77*
50.2	50.4	30.56	7.29	23.92	2.52*
60.2	60.5	30.57	7.27	23.93	2.47*
70.2	70.5	30.59	7.27	23.95	3.41*
80.2	80.6	30.61	7.25	23.96	1.67*
90.2	90.6	30.62	7.25	23.97	1.58*
100.2	100.6	30.63	7.27	23.98	2.27*
110.2	110.7	30.66	7.29	24.00	2.92*
120.1	120.7	30.71	7.36	24.03	3.73*
130.3	130.9	30.73	7.36	24.04	2.09*
140.1	140.7	30.74	7.38	24.05	2.13*
150.4	151.1	30.76	7.39	24.07	4.09
160.2	160.9	30.79	7.40	24.08	3.05
170.2	171.0	30.85	7.41	24.13	3.61*
180.1	180.9	30.83	7.42	24.11	+
190.1	191.0	30.83	7.42	24.11	1.62*
200.1	201.1	30.83	7.43	24.11	1.35*
210.1	211.1	30.84	7.43	24.12	2.35*
220.1	221.1	30.85	7.44	24.13	+

MAX DEPTH 224.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 14 KNIGHT INLET 1978  
 LAT N50 38.10  
 DATE 18/ 4/78  
 TIME (PST) 1417

TAPE CZ0/78/ 4- 49  
 LONG W126 25.20  
 PASS NO. 1  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.73	7.87	21.63	18.06
2.1	2.1	27.74	7.90	21.64	6.16*
5.1	5.1	27.76	7.87	21.65	15.54
10.0	10.1	29.00	7.67	22.64	13.01
15.2	15.2	30.06	7.55	23.49	32.42
20.0	20.1	30.45	7.38	23.82	5.97
25.0	25.1	30.47	7.35	23.84	3.75*
30.2	30.4	30.50	7.34	23.86	3.16*
35.3	35.5	30.50	7.34	23.87	2.76*
40.2	40.4	30.52	7.34	23.88	3.32
45.2	45.4	30.54	7.33	23.89	3.78*
50.2	50.5	30.56	7.33	23.91	2.90*
60.0	60.3	30.58	7.30	23.94	3.04*
70.3	70.6	30.60	7.28	23.95	3.25*
80.2	80.6	30.63	7.26	23.98	2.20
90.0	90.5	30.65	7.29	23.99	2.32*
100.3	100.8	30.67	7.30	24.01	2.18*
110.3	110.8	30.70	7.33	24.02	1.70*
120.0	120.6	30.71	7.34	24.03	2.14*
130.1	130.7	30.75	7.37	24.05	2.07*
140.3	141.0	30.75	7.38	24.06	1.36*
150.1	150.8	30.77	7.39	24.07	1.78*
160.3	161.0	30.78	7.40	24.07	1.14*
170.3	171.1	30.78	7.41	24.08	.80*
180.3	181.1	30.78	7.41	24.08	1.29*
190.1	191.0	30.79	7.41	24.08	1.34*
200.1	201.0	30.80	7.42	24.09	+
210.2	211.2	30.80	7.42	24.09	1.10*
220.1	221.2	30.80	7.42	24.09	2.12*
230.1	231.2	30.82	7.43	24.10	+

MAX DEPTH 235.1

CRUISE NO. 15





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N51 2.30  
 DATE 24/ 5/78  
 TIME (PST) 0543

TAPE CZ0/78/ 4- 53  
 LONG W125 33.80  
 PASS NO. 1  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.26	11.86	1.36	+
2.1	2.1	2.32	11.64	1.43	61.95
5.1	5.1	21.61	11.14	16.41	122.43
10.2	10.2	28.43	8.36	22.11	35.37
15.1	15.1	29.23	7.46	22.85	14.99
20.0	20.1	29.77	6.97	23.34	11.27
25.2	25.3	29.98	6.85	23.52	9.55
30.2	30.3	30.17	6.72	23.68	6.63
35.1	35.3	30.26	6.65	23.76	4.50
40.4	40.6	30.31	6.66	23.80	4.55*
45.0	45.2	30.34	6.64	23.83	4.28
50.1	50.3	30.37	6.64	23.85	3.93*
60.1	60.4	30.41	6.62	23.89	2.93*
70.2	70.6	30.43	6.60	23.90	2.55*
80.2	80.5	30.46	6.58	23.93	2.58*
90.1	90.5	30.49	6.59	23.95	2.46*
100.1	100.5	30.50	6.55	23.97	1.71*
110.0	110.5	30.51	6.57	23.97	1.67*
120.1	120.7	30.53	6.55	23.99	2.23*
130.2	130.8	30.54	6.53	24.00	2.13*
140.3	140.9	30.56	6.52	24.02	2.31*
150.3	151.0	30.58	6.55	24.03	2.80*
160.3	161.0	30.64	6.65	24.06	3.03*
170.1	170.9	30.69	6.79	24.08	4.09
180.2	181.0	30.76	6.95	24.12	2.70*
190.0	190.9	30.78	7.03	24.13	2.72
200.2	201.1	30.81	7.08	24.14	2.89*
210.3	211.3	30.84	7.14	24.15	3.42*
220.0	221.1	30.90	7.25	24.19	

MAX DEPTH 221.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 58.90  
 DATE 24/ 5/78  
 TIME (PST) 0616

TAPE CZ0/78/ 4- 54  
 LONG W125 33.20  
 PASS NO. 3  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	4.53	12.33	3.06	+
2.0	2.0	4.72	12.61	3.17	84.92
5.0	5.0	25.77	9.73	19.85	51.36
10.1	10.1	28.20	8.91	21.85	23.00
15.2	15.2	29.18	7.96	22.75	20.68
20.2	20.2	29.71	7.13	23.27	13.26
25.2	25.3	30.02	6.85	23.55	11.48
30.0	30.2	30.21	6.75	23.71	8.11
35.0	35.2	30.26	6.71	23.76	4.71*
40.1	40.3	30.30	6.73	23.79	4.10*
45.0	45.2	30.35	6.72	23.82	3.91*
50.2	50.4	30.37	6.72	23.84	4.36
60.2	60.5	30.43	6.69	23.90	3.70
70.3	70.6	30.45	6.65	23.91	2.80*
80.2	80.5	30.47	6.63	23.93	2.85*
90.0	90.4	30.49	6.57	23.96	2.22*
100.2	100.6	30.51	6.55	23.97	2.28*
110.1	110.6	30.52	6.54	23.99	2.32*
120.2	120.7	30.55	6.58	24.00	2.11*
130.2	130.8	30.54	6.52	24.00	1.95*
140.1	140.7	30.57	6.52	24.03	2.25*
150.3	151.0	30.62	6.60	24.05	3.72*
160.2	161.0	30.67	6.75	24.08	2.50*
170.2	171.0	30.71	6.86	24.09	2.50*
180.4	181.3	30.75	6.97	24.11	2.24*
190.4	191.3	30.80	7.07	24.13	2.54*
200.3	201.3	30.84	7.18	24.15	4.28
210.3	211.2	30.86	7.19	24.16	2.83
220.0	221.1	30.90	7.25	24.19	3.70*
230.1	231.2	30.94	7.31	24.21	1.91*
240.1	241.3	30.96	7.34	24.22	1.90*
250.1	251.3	30.98	7.36	24.24	1.70*
260.3	261.6	30.99	7.39	24.24	1.94*
270.1	271.4	31.02	7.42	24.26	1.99*
280.0	281.4	31.03	7.44	24.27	1.64*
290.1	291.5	31.05	7.45	24.28	1.32*
300.0	301.5	31.05	7.46	24.28	

MAX DEPTH 302.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 54.30  
 DATE 24/ 5/78  
 TIME (PST) 0704

TAPE CZ0/78/ 4- 55  
 LONG W125 32.80  
 PASS NO. 5  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	5.67	12.79	3.88	+
2.1	2.1	8.02	13.27	5.62	72.70
5.1	5.1	25.72	10.27	19.72	81.29
10.1	10.1	28.45	8.84	22.05	31.40
15.1	15.1	29.68	7.38	23.22	16.02
20.1	20.2	29.96	7.09	23.47	7.01
25.1	25.2	30.12	6.93	23.62	8.11
30.2	30.3	30.19	6.77	23.69	7.01*
35.1	35.3	30.26	6.78	23.75	7.92
40.2	40.3	30.32	6.75	23.80	5.07*
45.1	45.3	30.34	6.72	23.82	4.47*
50.3	50.5	30.39	6.75	23.85	4.38
60.5	60.8	30.44	6.72	23.89	3.50*
70.4	70.7	30.45	6.68	23.91	2.73*
80.2	80.5	30.48	6.69	23.93	2.76*
90.1	90.5	30.51	6.68	23.96	2.66*
100.2	100.6	30.52	6.66	23.97	1.61*
110.1	110.6	30.54	6.65	23.98	1.36*
120.3	120.8	30.56	6.62	24.00	2.29*
130.5	131.1	30.57	6.62	24.01	2.19*
140.2	140.9	30.61	6.61	24.04	3.35
150.1	150.8	30.63	6.67	24.06	2.91
160.2	161.0	30.68	6.77	24.08	2.90*
170.3	171.1	30.72	6.87	24.10	3.13*
180.2	181.1	30.75	6.96	24.11	2.41*
190.1	191.0	30.81	7.08	24.14	2.67*
200.4	201.3	30.87	7.21	24.17	4.89*
210.0	211.0	30.88	7.24	24.17	2.37*
220.1	221.2	30.91	7.31	24.19	2.43*
230.1	231.2	30.95	7.36	24.21	2.19*
240.2	241.4	30.96	7.38	24.22	1.97*
250.1	251.2	30.99	7.41	24.24	1.97*
260.3	261.6	31.01	7.43	24.25	2.09*
270.0	271.3	31.03	7.44	24.27	1.73*
280.4	281.8	31.04	7.45	24.27	1.56*
290.1	291.5	31.04	7.47	24.27	1.72*
300.0	301.5	31.07	7.48	24.29	1.50*
310.3	311.8	31.08	7.50	24.30	1.92*
320.3	321.8	31.09	7.51	24.31	1.95*
330.1	331.6	31.09	7.52	24.30	1.47*
340.2	341.8	31.11	7.53	24.32	1.47*
360.1	361.9	31.13	7.56	24.33	1.60*
380.2	382.0	31.15	7.59	24.34	1.07*
400.1	402.0	31.16	7.61	24.35	

MAX DEPTH 406.3



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 52.40  
 DATE 24/ 5/78  
 TIME (PST) 0748

TAPE CZ0/78/ 4- 56  
 LONG W125 38.50  
 PASS NO. 7  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	8.52	13.03	6.04	44.75
2.0	2.0	11.85	12.88	8.63	82.07
5.0	5.0	21.25	11.70	16.05	85.31
10.1	10.1	28.99	8.50	22.53	34.49
15.1	15.1	29.45	7.99	22.96	5.84
20.1	20.1	29.91	7.26	23.41	18.72
25.2	25.3	30.05	7.06	23.55	8.11
30.0	30.2	30.18	6.97	23.66	8.92
35.1	35.3	30.28	6.84	23.76	6.27
40.1	40.3	30.33	6.74	23.81	5.34*
45.2	45.4	30.36	6.76	23.83	4.93
50.1	50.3	30.39	6.78	23.85	5.88
60.3	60.5	30.44	6.73	23.90	3.24*
70.0	70.4	30.48	6.75	23.92	2.76*
80.0	80.4	30.50	6.69	23.95	2.58*
90.3	90.7	30.52	6.65	23.97	2.19*
100.2	100.6	30.54	6.68	23.98	2.33*
110.1	110.6	30.56	6.66	24.00	2.59*
120.3	120.8	30.60	6.83	24.01	2.30*
130.1	130.7	30.63	6.85	24.03	2.77*
140.3	140.9	30.65	6.87	24.05	4.00
150.2	150.8	30.67	6.74	24.07	3.38
160.1	160.8	30.70	6.85	24.08	2.65*
170.1	170.9	30.73	6.94	24.10	2.57*
180.3	181.2	30.80	7.04	24.14	2.84*
190.1	191.0	30.83	7.12	24.15	2.81*
200.1	201.0	30.89	7.23	24.18	4.15
210.3	211.3	30.93	7.29	24.20	2.57*
220.1	221.2	30.95	7.31	24.22	3.54
230.4	231.5	30.99	7.39	24.24	2.48*
240.2	241.3	31.00	7.40	24.25	.88*
250.2	251.4	31.01	7.41	24.26	1.49*
260.2	261.5	31.02	7.42	24.26	1.78*
270.2	271.5	31.03	7.44	24.27	1.78*
280.1	281.5	31.05	7.46	24.28	1.44*
290.3	291.6	31.06	7.47	24.28	1.54*
300.2	301.6	31.08	7.49	24.30	2.15*
310.0	311.5	31.09	7.51	24.30	1.71*
320.3	321.8	31.10	7.52	24.31	1.97*
330.2	331.8	31.12	7.54	24.32	1.27*
340.1	341.7	31.12	7.56	24.32	1.33*
360.0	361.8	31.15	7.58	24.34	1.71*
380.3	382.1	31.16	7.60	24.34	1.21*
400.1	402.1	31.17	7.61	24.35	.76*
420.1	422.2	31.17	7.61	24.35	.93*
440.1	442.2	31.17	7.62	24.35	.90*
460.0	462.3	31.17	7.63	24.35	

MAX DEPTH 460.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 47.90  
 DATE 24/ 5/78  
 TIME (PST) 0840

TAPE CZ0/78/ 4- 57  
 LONG W125 37.00  
 PASS NO. 9  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	13.57	13.06	9.92	36.62
2.1	2.1	15.83	12.90	11.68	56.61
5.0	5.0	24.10	11.47	18.28	100.86
10.1	10.1	28.99	8.80	22.49	28.20
15.0	15.1	29.67	7.88	23.15	13.45
20.2	20.3	29.89	7.70	23.34	8.59
25.0	25.1	30.03	7.47	23.48	11.45
30.2	30.3	30.16	7.10	23.63	8.81
35.1	35.3	30.25	6.95	23.72	6.36
40.1	40.3	30.35	6.89	23.81	6.08
45.2	45.4	30.38	6.84	23.83	3.57*
50.1	50.3	30.40	6.84	23.85	3.19*
60.1	60.4	30.43	6.80	23.88	3.04*
70.3	70.6	30.48	6.79	23.92	2.85*
80.2	80.6	30.50	6.77	23.93	2.49*
90.4	90.8	30.52	6.73	23.96	2.29*
100.2	100.6	30.55	6.81	23.97	3.41
110.0	110.5	30.55	6.76	23.98	2.16*
120.4	120.9	30.58	6.72	24.01	3.90
130.2	130.8	30.65	7.09	24.02	3.38*
140.3	140.9	30.66	7.02	24.03	3.14*
150.3	151.0	30.74	7.26	24.06	1.77*
160.5	161.2	30.74	7.17	24.08	2.14*
170.2	170.9	30.76	7.15	24.10	2.38*
180.4	181.2	30.78	7.08	24.12	3.01*
190.1	191.0	30.82	7.17	24.14	1.87*
200.2	201.1	30.83	7.19	24.15	2.25*
210.2	211.2	30.86	7.17	24.17	3.05*
220.4	221.4	30.88	7.17	24.18	2.20*
230.3	231.4	30.92	7.22	24.21	3.15*
240.1	241.2	30.93	7.24	24.21	2.05*
250.4	251.6	30.95	7.28	24.23	2.00*
260.2	261.4	30.98	7.31	24.24	2.06*
270.0	271.3	31.00	7.36	24.25	2.11*
280.3	281.7	31.02	7.38	24.27	1.45*
290.2	291.6	31.03	7.40	24.27	1.78*
300.2	301.6	31.06	7.44	24.29	2.16*
310.2	311.7	31.08	7.48	24.30	1.52*
320.1	321.6	31.08	7.48	24.30	1.68*
330.2	331.8	31.10	7.51	24.31	1.48*
340.1	341.7	31.10	7.52	24.31	1.92*
360.2	361.9	31.14	7.57	24.33	1.09*
380.2	382.1	31.16	7.59	24.34	1.11*
400.3	402.2	31.16	7.60	24.35	1.05*
420.3	422.3	31.16	7.61	24.35	1.13*
440.3	442.4	31.17	7.62	24.35	.72*
460.2	462.4	31.17	7.62	24.35	+
480.3	482.6	31.17	7.63	24.35	.67*
500.1	502.6	31.18	7.64	24.35	

MAX DEPTH 502.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 45.10  
 DATE 24/ 5/78  
 TIME (PST) 0921

TAPE CZ0/78/ 4- 58  
 LONG W125 41.00  
 PASS NO. 11  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	15.66	12.91	11.55	75.34
2.1	2.1	15.96	12.88	11.79	20.16*
5.1	5.1	19.82	12.21	14.86	52.93
10.2	10.2	27.70	9.78	21.33	30.52
15.1	15.1	29.25	8.43	22.74	25.83
20.3	20.3	29.95	7.57	23.41	15.39
25.0	25.1	30.13	7.25	23.59	8.61*
30.0	30.1	30.22	7.13	23.67	7.87
35.3	35.4	30.27	7.04	23.72	4.77
40.0	40.2	30.33	6.96	23.78	7.97*
45.0	45.2	30.37	6.85	23.83	4.85*
50.4	50.6	30.40	6.83	23.85	3.90*
60.2	60.5	30.44	6.82	23.89	4.30
70.0	70.3	30.47	6.82	23.91	3.45
80.1	80.5	30.50	6.82	23.93	2.65*
90.3	90.7	30.53	6.84	23.95	2.43*
100.0	100.5	30.59	6.96	23.99	1.96*
110.4	110.9	30.64	7.10	24.00	3.08*
120.2	120.7	30.71	7.34	24.03	2.14
130.2	130.8	30.73	7.36	24.04	2.53*
140.2	140.8	30.77	7.38	24.07	2.33*
150.2	150.9	30.78	7.40	24.08	2.38*
160.3	161.0	30.80	7.34	24.10	3.44*
170.3	171.1	30.83	7.29	24.13	4.03*
180.3	181.2	30.86	7.26	24.16	2.42*
190.0	190.9	30.87	7.28	24.16	4.39*
200.3	201.2	30.89	7.29	24.18	4.12
210.1	211.0	30.94	7.31	24.21	2.60*
220.3	221.3	30.95	7.31	24.22	2.17*
230.0	231.1	30.97	7.34	24.24	1.62*
240.2	241.4	30.99	7.35	24.25	1.61*
250.2	251.3	31.00	7.37	24.26	1.62*
260.4	261.7	31.02	7.39	24.27	2.09*
270.3	271.6	31.03	7.40	24.27	1.10*
280.1	281.5	31.05	7.42	24.28	1.38*
290.0	291.4	31.05	7.45	24.28	1.69*
300.1	301.6	31.07	7.46	24.30	1.67*
310.0	311.5	31.08	7.48	24.30	1.21*
320.0	321.6	31.10	7.50	24.31	2.00*
330.2	331.8	31.12	7.54	24.33	1.75*
340.1	341.8	31.14	7.57	24.33	2.70
360.1	361.8	31.16	7.59	24.35	1.20*
380.1	382.0	31.16	7.59	24.34	.82*
400.3	402.3	31.16	7.60	24.35	.53*
420.3	422.3	31.16	7.60	24.35	.32*
440.1	442.3	31.16	7.61	24.35	+
460.1	462.4	31.17	7.61	24.35	.53*
480.1	482.4	31.16	7.62	24.35	.67*

MAX DEPTH 496.4



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 15 KNIGHT INLET 1978

LAT N50 41.90

DATE 24/ 5/78

TIME (PST) 1005

TAPE CZ0/78/ 4- 59

LONG W125 43.50

PASS NO. 13

STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.0	.0	18.01	12.72	13.38	43.79
2.1	2.1	19.67	12.36	14.72	42.15
5.0	5.0	24.60	11.09	18.73	91.72
10.0	10.0	28.42	8.90	22.03	31.22
15.2	15.2	29.47	8.28	22.93	17.11
20.1	20.2	29.84	7.96	23.26	10.42
25.2	25.3	29.96	7.83	23.38	6.47
30.3	30.4	30.18	7.35	23.61	5.52
35.0	35.2	30.24	7.29	23.67	6.74
40.4	40.5	30.30	7.17	23.73	6.41*
45.3	45.5	30.35	7.05	23.78	4.73*
50.2	50.5	30.35	7.01	23.79	4.65*
60.3	60.6	30.41	6.91	23.85	4.22*
70.0	70.3	30.46	6.84	23.90	3.51*
80.0	80.4	30.51	6.90	23.93	3.20*
90.3	90.7	30.56	7.00	23.96	2.55*
100.3	100.8	30.59	7.08	23.97	+
110.2	110.7	30.63	7.19	23.99	4.45*
120.2	120.8	30.65	7.29	23.99	1.76*
130.3	130.9	30.69	7.36	24.01	2.09*
140.1	140.8	30.70	7.37	24.02	3.66
150.2	150.9	30.77	7.45	24.06	3.90
160.1	160.8	30.79	7.46	24.08	1.87*
170.2	171.0	30.80	7.46	24.08	2.39*
180.1	180.9	30.84	7.45	24.12	2.55*
190.1	191.0	30.86	7.44	24.13	1.49*
200.2	201.2	30.88	7.45	24.14	3.58*
210.2	211.2	30.90	7.41	24.17	2.13*
220.2	221.2	30.93	7.43	24.19	2.51*
230.4	231.5	30.96	7.44	24.21	3.99*
240.3	241.5	30.97	7.39	24.22	1.30*
250.2	251.4	30.98	7.39	24.23	1.96*
260.4	261.7	31.00	7.41	24.25	5.78
270.2	271.5	31.04	7.44	24.27	2.31*
280.4	281.7	31.06	7.47	24.29	2.01*
290.2	291.6	31.07	7.48	24.29	1.73*
300.1	301.6	31.09	7.50	24.30	2.11*
310.3	311.8	31.11	7.52	24.31	2.12*
320.4	322.0	31.12	7.54	24.32	1.11*
330.1	331.7	31.12	7.55	24.32	1.20*
340.2	341.9	31.13	7.56	24.33	1.57*
360.0	361.8	31.16	7.59	24.34	1.39*
380.2	382.0	31.16	7.60	24.34	.46*
400.3	402.2	31.16	7.61	24.35	.84*
420.0	422.1	31.17	7.61	24.35	+

MAX DEPTH 420.3



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 41.70  
 DATE 24/ 5/78  
 TIME (PST) 1035

TAPE CZ0/78/ 4- 60  
 LONG W125 46.60  
 PASS NO. 15  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	22.85	11.49	17.31	62.54
2.1	2.1	23.91	11.21	18.18	54.06
5.0	5.0	26.03	10.40	19.94	73.15
10.1	10.2	29.69	8.22	23.11	12.54
15.1	15.1	29.81	8.03	23.23	11.80
20.0	20.1	30.07	7.74	23.47	11.14
25.2	25.3	30.24	7.52	23.63	6.65
30.2	30.3	30.32	7.36	23.72	6.74
35.3	35.4	30.36	7.19	23.78	6.85*
40.3	40.5	30.43	7.10	23.84	4.75*
45.1	45.3	30.42	7.06	23.84	3.16*
50.4	50.6	30.42	7.03	23.84	2.10*
60.1	60.4	30.47	6.92	23.90	4.09*
70.3	70.6	30.49	6.93	23.91	1.80*
80.3	80.7	30.50	6.95	23.92	1.80*
90.3	90.7	30.53	7.00	23.93	2.47*
100.3	100.7	30.55	7.00	23.95	2.36*
110.1	110.6	30.59	7.12	23.96	2.78*
120.2	120.8	30.65	7.30	23.98	1.69*
130.1	130.7	30.66	7.32	24.00	.47*
140.2	140.8	30.68	7.37	24.00	3.23
150.3	151.0	30.74	7.42	24.04	2.30*
160.1	160.8	30.75	7.46	24.04	1.60*
170.4	171.2	30.77	7.47	24.06	2.22*
180.2	181.0	30.81	7.47	24.09	3.03*
190.0	190.9	30.83	7.47	24.10	1.60*
200.1	201.0	30.84	7.48	24.11	2.84*
210.0	211.0	30.87	7.47	24.14	1.63*
220.1	221.1	30.87	7.47	24.14	1.17*
230.3	231.4	30.88	7.46	24.15	3.17*
240.2	241.3	30.92	7.45	24.18	2.91*
250.1	251.2	30.95	7.46	24.20	2.80*
260.3	261.6	31.01	7.48	24.24	3.19*
270.2	271.5	31.01	7.48	24.25	1.03*
280.2	281.5	31.00	7.48	24.24	2.19*
290.2	291.6	31.04	7.45	24.27	1.84*
300.4	301.9	31.04	7.46	24.27	1.47*
310.2	311.7	31.05	7.47	24.27	+

MAX DEPTH 311.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 41.60  
 DATE 24/ 5/78  
 TIME (PST) 1057

TAPE CZ0/78/ 4- 61  
 LONG W125 49.30  
 PASS NO. 17  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	22.00	11.86	16.60	+
2.1	2.1	22.68	11.58	17.17	43.97
5.1	5.2	28.39	9.34	21.94	62.72
10.0	10.0	29.94	8.10	23.32	14.99
15.2	15.3	30.22	7.53	23.62	12.55
20.1	20.2	30.31	7.36	23.71	6.65*
25.2	25.3	30.42	7.27	23.81	6.55*
30.1	30.2	30.43	7.25	23.82	6.35*
35.2	35.3	30.49	6.97	23.90	5.79
40.0	40.2	30.49	6.94	23.91	4.76
45.1	45.3	30.51	6.97	23.92	3.92*
50.3	50.5	30.55	7.04	23.94	5.84
60.3	60.5	30.63	7.29	23.97	2.11
70.3	70.6	30.65	7.38	23.98	2.34*
80.3	80.6	30.67	7.36	24.00	1.87*
90.1	90.5	30.69	7.40	24.00	2.00*
100.4	100.9	30.72	7.43	24.02	2.58*
110.3	110.8	30.74	7.48	24.04	2.36*
120.2	120.7	30.78	7.55	24.05	2.63*
130.2	130.8	30.80	7.59	24.07	3.01*
140.0	140.7	30.82	7.56	24.09	1.79*
150.4	151.1	30.83	7.56	24.09	1.31*
160.4	161.1	30.83	7.54	24.10	2.19*
170.4	171.1	30.86	7.53	24.12	2.39*
180.3	181.1	30.90	7.50	24.15	3.14*
190.3	191.2	30.92	7.48	24.18	2.51*
200.1	201.0	30.93	7.48	24.18	2.04*
210.4	211.4	30.94	7.49	24.19	+
220.1	221.1	30.94	7.49	24.19	2.04*
230.2	231.3	30.94	7.48	24.19	2.32*
240.2	241.3	30.95	7.44	24.20	+
250.2	251.4	31.00	7.47	24.24	3.45*
260.3	261.5	31.02	7.48	24.26	1.74*
270.4	271.7	31.04	7.49	24.27	1.11*
280.1	281.4	31.04	7.49	24.26	2.50*
290.2	291.6	31.04	7.50	24.27	1.23*
300.1	301.6	31.05	7.50	24.28	1.37*
310.2	311.7	31.06	7.51	24.28	2.51*
320.2	321.7	31.10	7.52	24.31	+

MAX DEPTH 323.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 41.10  
 DATE 24/ 5/78  
 TIME (PST) 1119

TAPE CZ0/78/ 4- 62  
 LONG W125 51.90  
 PASS NO. 19  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	22.62	11.88	17.07	27.57
2.1	2.1	23.50	11.55	17.80	41.34
5.2	5.2	25.50	10.70	19.48	35.84
10.1	10.2	29.84	8.44	23.20	25.43
15.2	15.3	30.15	7.66	23.55	8.40
20.0	20.1	30.22	7.54	23.62	8.11*
25.3	25.4	30.39	7.28	23.78	8.27*
30.2	30.3	30.39	7.21	23.79	6.76*
35.2	35.4	30.50	7.23	23.88	5.39*
40.3	40.4	30.53	7.17	23.91	4.23*
45.2	45.4	30.54	7.17	23.92	3.44*
50.0	50.2	30.57	7.23	23.93	3.34*
60.3	60.6	30.66	7.33	23.99	2.95*
70.0	70.4	30.68	7.44	23.99	2.48*
80.4	80.8	30.70	7.53	24.00	2.59*
90.4	90.8	30.74	7.57	24.02	3.09*
100.4	100.9	30.80	7.61	24.07	1.95*
110.1	110.6	30.81	7.61	24.07	1.62*
120.0	120.6	30.82	7.62	24.08	1.78*
130.3	130.9	30.84	7.56	24.10	1.35*
140.3	141.0	30.82	7.50	24.09	2.35*
150.0	150.7	30.87	7.45	24.14	4.11*
160.2	161.0	30.89	7.48	24.15	2.68*
170.2	171.0	30.93	7.49	24.18	2.11*
180.3	181.2	30.94	7.46	24.19	2.13*
190.2	191.1	30.96	7.44	24.21	2.22*
200.2	201.2	30.97	7.44	24.22	4.04
210.1	211.1	30.98	7.44	24.23	1.29*
220.1	221.1	30.98	7.45	24.23	+
230.3	231.4	31.01	7.47	24.25	2.04*
240.3	241.4	31.01	7.46	24.25	+
250.2	251.4	31.01	7.47	24.25	1.30*
260.1	261.4	31.03	7.47	24.26	1.81*
270.1	271.4	31.03	7.48	24.26	1.26*
280.0	281.4	31.03	7.48	24.26	1.31*
290.1	291.5	31.05	7.49	24.27	2.01*
300.3	301.7	31.06	7.50	24.28	2.95
310.2	311.7	31.07	7.50	24.29	+

MAX DEPTH 312.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 40.70  
 DATE 24/ 5/78  
 TIME (PST) 1143

TAPE CZ0/78/ 4- 63  
 LONG W125 54.40  
 PASS NO. 21  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.28	11.28	18.45	23.12
2.1	2.1	25.65	10.67	19.61	29.48
5.1	5.1	26.94	9.99	20.71	24.77
10.2	10.2	27.42	9.77	21.12	13.95
15.1	15.1	29.55	8.64	22.94	34.07
20.2	20.3	30.22	7.94	23.56	12.13
25.2	25.3	30.26	7.58	23.65	4.58
30.2	30.3	30.32	7.47	23.71	7.89*
35.0	35.2	30.35	7.21	23.76	5.66*
40.3	40.4	30.39	7.26	23.79	5.98
45.0	45.2	30.43	7.23	23.82	4.74
50.3	50.5	30.45	7.24	23.84	4.10*
60.4	60.7	30.54	7.32	23.90	5.09*
70.0	70.3	30.60	7.41	23.93	3.90*
80.2	80.6	30.66	7.47	23.97	2.48*
90.0	90.4	30.68	7.50	23.98	1.86*
100.4	100.9	30.70	7.52	24.00	1.78*
110.3	110.8	30.71	7.53	24.01	1.34*
120.1	120.6	30.72	7.54	24.01	4.26
130.3	130.9	30.77	7.63	24.04	2.61*
140.1	140.7	30.80	7.66	24.05	2.28*
150.2	150.9	30.82	7.67	24.07	2.20*
160.2	161.0	30.84	7.66	24.09	3.77
170.4	171.2	30.88	7.63	24.12	2.27*
180.3	181.1	30.89	7.62	24.13	2.95*
190.1	191.0	30.94	7.56	24.18	3.07
200.1	201.0	30.94	7.57	24.18	3.43*
210.3	211.3	30.94	7.58	24.18	1.21*
220.2	221.3	30.95	7.57	24.18	1.00*
230.1	231.2	30.96	7.57	24.19	.94*
240.0	241.2	30.96	7.57	24.19	4.29*
250.2	251.4	30.97	7.54	24.21	2.97*
260.2	261.5	31.00	7.51	24.23	2.73*
270.2	271.5	31.00	7.51	24.23	+
280.0	281.4	31.01	7.51	24.24	+
290.3	291.6	31.01	7.50	24.25	1.40*
300.2	301.6	31.02	7.49	24.25	1.15*
310.4	311.9	31.03	7.49	24.26	.66*
320.1	321.7	31.03	7.49	24.26	.79*
330.4	332.0	31.03	7.49	24.26	1.30*
340.0	341.7	31.04	7.49	24.27	1.37*
360.2	361.9	31.05	7.49	24.28	1.08*

MAX DEPTH 370.8



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 24/ 5/78  
 TIME (PST) 1313

TAPE CZ0/78/ 4- 64  
 LONG W125 57.20  
 PASS NO. 23  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.22	9.61	21.76	8.63
2.2	2.2	28.03	9.69	21.60	4.06*
5.0	5.0	28.35	9.42	21.90	10.32
10.1	10.1	28.53	9.25	22.06	12.01
15.2	15.2	29.01	8.88	22.49	12.80
20.2	20.3	30.04	8.09	23.40	10.14
25.1	25.2	30.10	8.05	23.46	6.86*
30.1	30.2	30.13	8.02	23.48	4.35
35.2	35.4	30.19	7.97	23.54	5.29
40.1	40.3	30.22	7.96	23.56	5.51*
45.1	45.3	30.31	7.90	23.64	7.15
50.3	50.5	30.45	7.81	23.76	7.71
60.5	60.7	30.53	7.77	23.83	4.03*
70.2	70.5	30.59	7.73	23.88	3.90
80.3	80.7	30.63	7.69	23.92	3.62*
90.3	90.7	30.66	7.65	23.94	4.39*
100.2	100.6	30.73	7.62	24.01	2.73*
110.3	110.8	30.75	7.62	24.02	3.66*
120.4	120.9	30.80	7.63	24.06	3.45*
130.2	130.8	30.80	7.63	24.06	+
140.4	141.0	30.81	7.64	24.07	+
150.2	150.9	30.83	7.64	24.08	.75*
160.0	160.8	30.83	7.64	24.08	1.93*
170.3	171.1	30.83	7.65	24.08	+
180.4	181.2	30.86	7.64	24.10	1.85*
190.1	191.0	30.86	7.63	24.11	1.50*
200.2	201.1	30.91	7.61	24.15	4.25*
210.3	211.3	30.92	7.59	24.16	3.24*
220.3	221.3	30.95	7.56	24.19	3.04*
230.3	231.3	30.97	7.54	24.21	3.75
240.4	241.6	30.99	7.50	24.23	3.22
250.1	251.3	31.00	7.50	24.23	1.76*
260.2	261.4	31.01	7.48	24.24	1.19*
270.2	271.5	31.02	7.48	24.26	1.51*
280.2	281.6	31.03	7.48	24.26	1.46*
290.0	291.4	31.03	7.48	24.26	1.20*
300.2	301.6	31.04	7.48	24.26	.84*
310.3	311.7	31.04	7.48	24.27	.86*
320.1	321.6	31.04	7.48	24.27	+

MAX DEPTH 321.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 24/ 5/78  
 TIME (PST) 1336

TAPE CZ0/78/ 4- 65  
 LONG W125 59.50  
 PASS NO. 25  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.69	9.88	21.31	7.02
2.1	2.1	27.75	9.83	21.37	8.26
5.1	5.1	27.82	9.74	21.44	16.16
10.2	10.2	29.31	8.57	22.77	8.74
15.1	15.1	29.40	8.52	22.84	5.73
20.0	20.1	29.99	8.11	23.36	17.93
25.2	25.3	30.51	7.75	23.82	5.15
30.0	30.2	30.63	7.70	23.92	7.38*
35.2	35.3	30.68	7.69	23.96	4.15*
40.2	40.4	30.69	7.70	23.96	2.93*
45.0	45.2	30.69	7.69	23.97	3.19
50.1	50.3	30.74	7.67	24.01	5.30*
60.2	60.4	30.80	7.66	24.06	4.60
70.1	70.4	31.00	7.77	24.20	

MAX DEPTH 74.9

CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 39.90  
 DATE 24/ 5/78  
 TIME (PST) 1406

TAPE CZ0/78/ 4- 66  
 LONG W126 4.20  
 PASS NO. 27  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.76	10.52	21.26	.16
2.0	2.0	27.88	10.22	21.41	22.14
5.1	5.2	28.62	9.51	22.09	6.93
10.0	10.0	29.84	8.29	23.22	24.49
15.3	15.4	30.27	7.90	23.61	12.85
20.1	20.2	30.46	7.81	23.77	5.82
25.1	25.2	30.51	7.74	23.82	8.12
30.2	30.3	30.59	7.70	23.89	6.03*
35.1	35.2	30.60	7.68	23.90	2.99*
40.2	40.4	30.64	7.68	23.93	1.91*
45.1	45.3	30.64	7.69	23.93	1.96*
50.3	50.5	30.65	7.68	23.94	3.82*
60.1	60.4	30.72	7.62	24.00	3.52*
70.1	70.4	30.76	7.66	24.03	2.54*
80.2	80.5	30.79	7.69	24.04	3.25*
90.1	90.5	30.87	7.73	24.10	5.94*
100.2	100.7	30.90	7.75	24.12	3.72*
110.3	110.8	31.00	7.79	24.19	3.47*
120.2	120.7	31.01	7.79	24.20	2.04*
130.4	131.0	31.04	7.80	24.23	2.43*
140.0	140.7	31.06	7.81	24.24	2.38*
150.2	150.9	31.09	7.81	24.26	4.46
160.1	160.8	31.14	7.83	24.30	2.99*
170.1	170.9	31.15	7.84	24.31	1.49*
180.2	181.0	31.16	7.84	24.31	1.66
190.2	191.1	31.17	7.84	24.32	+

MAX DEPTH 193.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 39.20  
 DATE 24/ 5/78  
 TIME (PST) 1455

TAPE CZ0/78/ 4- 67  
 LONG W126 12.50  
 PASS NO. 29  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.62	10.10	22.00	44.69
2.0	2.0	29.56	8.95	22.90	27.26
5.2	5.3	29.76	8.72	23.09	7.28
10.3	10.3	29.81	8.67	23.14	7.86*
15.2	15.3	29.94	8.59	23.26	10.30
20.0	20.1	30.24	8.38	23.52	12.21
25.2	25.3	30.35	8.27	23.62	8.44
30.3	30.4	30.53	8.03	23.79	10.31
35.4	35.6	30.59	7.91	23.86	3.96*
40.1	40.2	30.59	7.89	23.86	3.50
45.2	45.4	30.60	7.87	23.87	4.90*
50.1	50.3	30.63	7.90	23.89	2.98*
60.4	60.6	30.69	7.88	23.94	5.47*
70.2	70.5	30.75	7.95	23.98	3.62*
80.1	80.5	30.83	8.01	24.03	3.52
90.2	90.6	30.90	7.93	24.10	4.41*
100.2	100.7	30.95	7.89	24.14	5.58*
110.2	110.7	31.06	7.91	24.22	2.85*
120.2	120.7	31.10	7.93	24.26	5.18*
130.1	130.8	31.16	7.93	24.30	2.39*
140.3	141.0	31.16	7.93	24.30	.99*
150.0	150.8	31.16	7.93	24.30	+
160.2	161.0	31.16	7.93	24.30	1.41*
170.1	170.9	31.17	7.90	24.31	1.49*
180.2	181.0	31.15	7.91	24.30	+

MAX DEPTH 186.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 38.50  
 DATE 24/ 5/78  
 TIME (PST) 1528

TAPE C20/78/ 4- 68  
 LONG W126 17.30  
 PASS NO. 31  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.79	9.05	23.07	4.27
2.1	2.1	29.78	9.07	23.06	3.21*
5.0	5.0	29.85	8.89	23.14	8.12
10.1	10.2	30.06	8.42	23.37	11.97
15.2	15.3	30.23	8.22	23.53	9.66*
20.2	20.2	30.36	8.11	23.65	9.76
25.2	25.3	30.58	8.09	23.82	11.06
30.4	30.5	30.61	8.08	23.85	5.62
35.1	35.2	30.65	8.08	23.88	5.88
40.4	40.6	30.68	8.09	23.91	4.02*
45.1	45.3	30.70	8.09	23.92	2.72*
50.3	50.5	30.71	8.09	23.93	4.24*
60.4	60.7	30.84	8.04	24.04	4.59*
70.2	70.5	30.87	8.01	24.06	3.62*
80.2	80.6	30.93	7.94	24.12	5.55
90.3	90.8	30.97	7.92	24.16	2.62*
100.4	100.9	31.02	7.92	24.19	3.29*
110.2	110.7	31.06	7.92	24.22	2.49*
120.3	120.8	31.05	7.93	24.21	1.11*
130.0	130.7	31.04	7.93	24.21	1.78*
140.1	140.8	31.11	7.93	24.26	5.06
150.3	151.0	31.11	7.93	24.26	2.56*
160.2	160.9	31.14	7.93	24.29	3.92*
170.2	171.0	31.16	7.93	24.30	3.38*
180.3	181.2	31.22	7.93	24.35	3.27*
190.3	191.2	31.25	7.92	24.37	2.74*
200.3	201.3	31.26	7.92	24.38	2.38*
210.3	211.3	31.25	7.92	24.38	2.33*
220.2	221.3	31.27	7.91	24.39	5.45
230.2	231.3	31.32	7.92	24.43	3.67*

MAX DEPTH 236.7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 15 KNIGHT INLET 1978  
 LAT N50 38.10  
 DATE 24/ 5/78  
 TIME (PST) 1615

TAPE CZ0/78/ 4- 69  
 LONG W126 25.20  
 PASS NO. 33  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.03	9.26	23.22	.14
2.0	2.1	30.04	9.16	23.25	12.72
5.1	5.2	30.25	8.44	23.51	16.24*
10.2	10.3	30.40	8.33	23.65	9.30
15.0	15.1	30.59	8.40	23.79	4.79
20.1	20.2	30.65	8.44	23.83	6.83*
25.2	25.3	30.66	8.45	23.83	1.36*
30.3	30.4	30.66	8.45	23.83	1.54*
35.3	35.4	30.66	8.45	23.83	2.04*
40.1	40.3	30.68	8.41	23.86	9.14
45.3	45.5	30.78	8.32	23.94	6.44
50.2	50.5	30.82	8.29	23.98	4.38*
60.1	60.4	30.87	8.26	24.03	3.03*
70.1	70.4	30.89	8.24	24.04	1.84*
80.2	80.6	30.89	8.21	24.05	1.13*
90.1	90.5	30.89	8.20	24.05	2.08*
100.4	100.9	30.93	8.14	24.09	5.50
110.4	110.9	31.00	8.04	24.16	7.28*
120.2	120.8	31.10	7.94	24.25	1.82*
130.1	130.7	31.10	7.94	24.25	.62*
140.1	140.8	31.11	7.94	24.26	1.27*
150.0	150.7	31.11	7.94	24.26	3.12*
160.4	161.1	31.19	7.90	24.33	4.02*
170.3	171.2	31.22	7.89	24.35	2.05*
180.1	181.0	31.24	7.89	24.36	4.93
190.3	191.3	31.26	7.89	24.38	1.92*
200.1	201.0	31.26	7.90	24.38	+
210.3	211.4	31.27	7.89	24.39	1.54*
220.2	221.3	31.28	7.90	24.40	4.55
230.0	231.1	31.28	7.90	24.40	+

MAX DEPTH 238.2

CRUISE NO. 16



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N51 2.30  
 DATE 13/ 6/78  
 TIME (PST) 1658

TAPE CZ0/78/ 4- 70  
 LONG W125 33.80  
 PASS NO. 1  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.23	9.75	-.01	+
2.2	2.1	.62	9.31	.33	83.42
5.0	5.0	25.31	10.14	19.43	72.40
10.1	10.2	28.50	8.36	22.17	27.13
15.1	15.2	29.58	7.29	23.15	17.12
20.0	20.1	29.81	7.09	23.36	11.21
25.1	25.2	29.98	6.85	23.52	9.21
30.0	30.2	30.15	6.72	23.67	8.03
35.1	35.2	30.28	6.69	23.78	5.65
40.0	40.2	30.34	6.67	23.83	5.40*
45.0	45.2	30.39	6.65	23.87	4.79*
50.1	50.3	30.43	6.63	23.90	4.28
60.0	60.3	30.46	6.60	23.93	2.69*
70.0	70.3	30.49	6.58	23.95	2.82*
80.2	80.6	30.51	6.57	23.97	2.29*
90.2	90.6	30.53	6.54	23.99	2.60*
100.2	100.7	30.55	6.54	24.01	2.40*
110.2	110.7	30.58	6.57	24.03	3.26
120.2	120.7	30.61	6.61	24.04	2.19*
130.2	130.8	30.64	6.68	24.06	2.16*
140.2	140.8	30.68	6.76	24.08	2.31*
150.1	150.8	30.70	6.84	24.09	2.16*
160.1	160.9	30.73	6.92	24.10	1.79*
170.1	170.9	30.76	6.98	24.12	1.98*
180.1	180.9	30.78	7.03	24.13	1.83*
190.2	191.1	30.81	7.11	24.14	2.33
200.2	201.1	30.85	7.18	24.16	3.15*
210.2	211.1	30.87	7.23	24.17	1.94*
220.2	221.2	30.89	7.25	24.18	1.28*
230.0	231.1	30.89	7.25	24.18	

MAX DEPTH 234.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 58.90  
 DATE 13/ 6/78  
 TIME (PST) 1738

TAPE CZ0/78/ 4- 71  
 LONG W125 33.20  
 PASS NO. 3  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.39	9.99	.10	+
2.1	2.0	2.35	9.99	1.62	102.18
5.1	5.1	25.93	9.84	19.95	77.10
10.0	10.0	29.10	7.81	22.70	25.03
15.1	15.2	29.68	7.23	23.23	15.76
20.1	20.2	29.99	6.92	23.52	11.66
25.1	25.2	30.11	6.80	23.63	9.05
30.0	30.2	30.25	6.72	23.75	7.32
35.2	35.3	30.29	6.71	23.78	4.41
40.1	40.2	30.35	6.68	23.83	4.97
45.0	45.2	30.39	6.67	23.87	4.54*
50.1	50.3	30.42	6.65	23.89	3.79*
60.0	60.3	30.46	6.63	23.92	3.00*
70.1	70.4	30.49	6.60	23.95	3.44
80.1	80.5	30.51	6.58	23.97	2.39*
90.1	90.5	30.53	6.55	23.99	1.99*
100.2	100.6	30.54	6.54	24.00	1.95*
110.2	110.7	30.57	6.55	24.02	2.40*
120.2	120.7	30.62	6.65	24.04	2.21*
130.1	130.7	30.63	6.68	24.05	2.21*
140.1	140.8	30.66	6.74	24.07	2.08*
150.1	150.8	30.68	6.80	24.08	2.34*
160.2	160.9	30.72	6.89	24.10	2.42*
170.1	170.9	30.75	6.96	24.11	1.97*
180.1	180.9	30.78	7.02	24.12	1.83*
190.1	191.0	30.80	7.07	24.14	1.86*
200.1	201.0	30.83	7.12	24.15	2.16
210.0	211.0	30.85	7.19	24.16	2.14*
220.1	221.1	30.87	7.23	24.17	2.05*
230.0	231.1	30.90	7.27	24.19	2.17*
240.0	241.2	30.93	7.33	24.20	2.19*
250.1	251.3	30.95	7.35	24.22	2.42*
260.1	261.4	30.98	7.36	24.24	2.46*
270.2	271.5	31.00	7.39	24.25	1.78*
280.2	281.5	31.00	7.40	24.25	1.35*
290.2	291.6	31.02	7.42	24.26	1.80*
300.1	301.5	31.04	7.44	24.27	1.69*
310.2	311.7	31.05	7.46	24.28	1.83*

MAX DEPTH 319.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 54.30  
 DATE 13/ 6/78  
 TIME (PST) 1827

TAPE CZ0/78/ 4- 72  
 LONG W125 32.80  
 PASS NO. 5  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	1.23	11.37	.61	15.53
2.1	2.1	2.99	10.69	2.06	61.45
5.1	5.1	25.59	10.09	19.65	73.93
10.1	10.2	28.68	8.37	22.30	34.21
15.1	15.1	29.51	7.57	23.06	15.70
20.1	20.2	29.91	7.13	23.43	11.13
25.1	25.2	30.10	6.98	23.60	10.48
30.1	30.2	30.20	6.90	23.69	7.19
35.1	35.3	30.30	6.73	23.79	7.18
40.2	40.3	30.35	6.70	23.83	5.14
45.0	45.2	30.39	6.69	23.86	4.94*
50.1	50.3	30.42	6.65	23.89	3.76*
60.0	60.3	30.45	6.63	23.92	3.45
70.2	70.5	30.49	6.62	23.95	3.12*
80.1	80.5	30.51	6.58	23.97	2.71*
90.1	90.6	30.54	6.58	23.99	2.58*
100.1	100.5	30.56	6.67	24.00	3.87*
110.2	110.7	30.62	6.82	24.02	1.43*
120.2	120.7	30.63	6.70	24.05	1.67*
130.1	130.7	30.66	6.85	24.06	1.73*
140.0	140.7	30.68	6.88	24.07	2.07*
150.2	150.9	30.71	6.96	24.08	2.30*
160.1	160.9	30.75	7.01	24.10	+
170.1	170.9	30.75	7.19	24.08	5.57*
180.0	180.9	30.81	7.10	24.14	2.56*
190.0	190.9	30.83	7.17	24.14	2.09*
200.4	201.3	30.84	7.16	24.15	1.91*
210.2	211.2	30.87	7.20	24.17	1.81*
220.1	221.2	30.89	7.25	24.18	1.83*
230.1	231.2	30.91	7.31	24.19	2.06*
240.1	241.2	30.94	7.34	24.21	2.09*
250.1	251.3	30.96	7.36	24.22	1.79*
260.0	261.2	30.98	7.37	24.23	1.78*
270.1	271.4	30.99	7.40	24.24	1.99*
280.1	281.5	31.01	7.42	24.26	1.90*
290.3	291.7	31.02	7.44	24.26	1.61*
300.1	301.6	31.04	7.45	24.27	1.65*
310.1	311.5	31.06	7.47	24.28	2.09*
320.1	321.6	31.07	7.50	24.29	2.25*
330.1	331.7	31.09	7.51	24.30	1.95*
340.2	341.9	31.10	7.53	24.31	1.67*
360.2	361.9	31.12	7.56	24.32	1.48*
380.1	382.0	31.15	7.59	24.34	1.20*
400.1	402.0	31.15	7.59	24.34	.98*

MAX DEPTH 412.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 52.40  
 DATE 13/ 6/78  
 TIME (PST) 1913

TAPE CZ0/78/ 4- 73  
 LONG W125 38.50  
 PASS NO. 7  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	1.61	12.06	.83	+
2.1	2.1	7.94	11.43	5.81	95.00
5.1	5.1	27.13	9.79	20.89	65.81
10.0	10.1	29.05	8.30	22.60	25.59
15.0	15.1	29.72	7.57	23.23	16.60
20.0	20.1	29.98	7.30	23.46	10.31
25.1	25.2	30.14	7.05	23.62	9.24
30.2	30.3	30.27	6.85	23.75	6.60
35.1	35.2	30.32	6.78	23.79	5.12
40.0	40.2	30.35	6.73	23.83	4.30
45.1	45.3	30.38	6.73	23.85	4.03
50.1	50.3	30.42	6.73	23.88	3.72*
60.1	60.4	30.50	6.70	23.94	3.99*
70.2	70.5	30.51	6.68	23.96	2.44*
80.2	80.6	30.53	6.66	23.98	3.91
90.0	90.4	30.56	6.67	24.00	2.18*
100.1	100.6	30.59	6.74	24.01	2.48*
110.1	110.6	30.61	6.73	24.03	2.45*
120.2	120.7	30.66	6.88	24.05	1.91*
130.1	130.7	30.68	6.96	24.06	3.25
140.1	140.8	30.73	7.08	24.08	2.60*
150.3	151.0	30.76	7.13	24.10	2.55*
160.1	160.9	30.82	7.16	24.14	3.21*
170.0	170.8	30.86	7.45	24.13	2.11
180.2	181.1	30.87	7.51	24.13	2.42*
190.0	190.9	30.89	7.46	24.15	3.61*
200.2	201.1	30.90	7.38	24.17	1.74*
210.1	211.1	30.89	7.29	24.18	2.01*
220.2	221.3	30.91	7.26	24.19	2.02*
230.2	231.3	30.93	7.27	24.21	3.89*
240.1	241.3	30.95	7.33	24.22	2.39*
250.1	251.3	30.98	7.38	24.24	2.22*
260.1	261.3	31.00	7.40	24.25	1.61*
270.1	271.4	31.01	7.41	24.25	1.73*
280.1	281.4	31.02	7.42	24.26	1.89*
290.1	291.5	31.04	7.45	24.27	1.70*
300.1	301.6	31.05	7.46	24.28	1.68*
310.1	311.6	31.07	7.48	24.29	1.75*
320.0	321.6	31.08	7.50	24.30	1.81*
330.1	331.7	31.10	7.52	24.31	1.74*
340.0	341.7	31.11	7.55	24.31	1.58*
360.1	361.9	31.13	7.57	24.33	1.58*
380.0	381.9	31.14	7.59	24.34	.72*
400.1	402.1	31.16	7.59	24.34	.95*
420.2	422.3	31.16	7.60	24.34	.84*
440.2	442.3	31.16	7.61	24.35	.65*
460.1	462.4	31.16	7.61	24.35	.66*
480.2	482.5	31.17	7.62	24.35	

MAX DEPTH 486.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 47.90  
 DATE 13/ 6/78  
 TIME (PST) 2016

TAPE CZ0/78/ 4- 74  
 LONG W125 37.00  
 PASS NO. 9  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.95	13.01	1.75	49.21
2.1	2.1	10.78	11.97	7.94	109.59
5.2	5.2	26.87	9.89	20.67	53.07
10.0	10.0	29.13	8.37	22.65	20.39
15.2	15.3	29.72	7.72	23.20	11.80
20.1	20.2	29.95	7.41	23.43	11.88
25.1	25.2	30.15	7.16	23.61	9.51
30.1	30.2	30.25	6.97	23.71	8.28
35.1	35.2	30.32	6.84	23.79	6.60*
40.1	40.3	30.39	6.77	23.85	5.62
45.2	45.4	30.42	6.75	23.88	4.62*
50.1	50.3	30.45	6.76	23.90	4.08
60.0	60.3	30.49	6.73	23.94	3.14*
70.0	70.4	30.51	6.73	23.95	2.42*
80.1	80.5	30.54	6.73	23.98	2.53*
90.1	90.5	30.57	6.79	23.99	4.36*
100.2	100.6	30.61	6.84	24.01	2.39*
110.0	110.5	30.66	7.08	24.03	1.78*
120.3	120.8	30.71	7.13	24.06	4.18*
130.0	130.6	30.74	7.28	24.06	4.17
140.1	140.8	30.78	7.36	24.08	2.93*
150.2	150.9	30.80	7.40	24.09	3.66
160.1	160.9	30.81	7.31	24.11	2.55*
170.0	170.8	30.82	7.42	24.10	2.22*
180.0	180.8	30.85	7.35	24.14	2.68*
190.2	191.0	30.88	7.46	24.15	1.88*
200.2	201.1	30.91	7.48	24.17	2.36*
210.3	211.2	30.92	7.41	24.18	1.58*
220.3	221.3	30.93	7.37	24.20	2.23*
230.2	231.3	30.94	7.35	24.21	2.00*
240.1	241.2	30.95	7.34	24.22	2.88
250.2	251.4	30.98	7.35	24.24	2.15*
260.2	261.4	30.99	7.34	24.24	1.65*
270.1	271.4	30.99	7.35	24.24	1.91*
280.1	281.5	31.01	7.37	24.26	1.89*
290.1	291.5	31.04	7.39	24.28	1.61*
300.0	301.5	31.04	7.44	24.27	.75*
310.1	311.6	31.05	7.45	24.28	1.42*
320.2	321.7	31.08	7.49	24.30	2.47*
330.2	331.8	31.10	7.51	24.31	1.64*
340.2	341.8	31.11	7.53	24.32	1.84*
360.1	361.8	31.13	7.56	24.33	1.45*
380.2	382.1	31.14	7.58	24.33	1.21*
400.0	402.0	31.15	7.59	24.34	.92*
420.1	422.1	31.16	7.60	24.35	.84*
440.0	442.2	31.16	7.60	24.35	.44*
460.0	462.3	31.17	7.61	24.35	.93*
480.2	482.5	31.17	7.62	24.35	1.02*

MAX DEPTH 488.2



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 45.10  
 DATE 13/ 6/78  
 TIME (PST) 2103

TAPE CZ0/78/ 4- 75  
 LONG W125 41.00  
 PASS NO. 11  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	6.16	12.63	4.28	208.29
2.2	2.2	23.22	10.88	17.69	97.01
5.0	5.0	26.80	9.61	20.66	53.42
10.0	10.0	29.13	8.37	22.65	22.55
15.1	15.2	29.81	7.63	23.28	18.63
20.0	20.1	29.95	7.48	23.41	9.33
25.1	25.2	30.10	7.29	23.55	7.52
30.0	30.2	30.22	7.10	23.68	6.31
35.0	35.2	30.29	6.96	23.75	7.17
40.1	40.3	30.34	6.88	23.80	5.10*
45.2	45.4	30.39	6.84	23.85	4.29*
50.1	50.4	30.41	6.83	23.86	4.18*
60.1	60.4	30.47	6.77	23.92	3.55*
70.0	70.3	30.50	6.75	23.94	2.67*
80.0	80.4	30.53	6.78	23.96	3.84
90.1	90.5	30.55	6.76	23.98	2.27*
100.1	100.6	30.63	7.08	24.00	2.58*
110.1	110.6	30.70	7.27	24.03	2.67*
120.0	120.6	30.75	7.42	24.05	2.48*
130.1	130.7	30.78	7.51	24.06	2.13*
140.2	140.9	30.80	7.54	24.07	2.39*
150.2	150.9	30.83	7.59	24.09	2.49*
160.2	161.0	30.87	7.62	24.12	1.89*
170.1	170.9	30.87	7.63	24.11	1.70*
180.1	180.9	30.89	7.60	24.13	2.12*
190.1	190.9	30.90	7.63	24.14	2.10*
200.2	201.1	30.91	7.61	24.15	1.98*
210.2	211.2	30.93	7.60	24.17	2.12*
220.1	221.1	30.94	7.60	24.17	1.66*
230.1	231.2	30.96	7.59	24.19	2.05*
240.0	241.2	30.97	7.56	24.20	3.80
250.0	251.2	30.97	7.52	24.21	1.70*
260.2	261.4	30.97	7.37	24.23	2.14*
270.1	271.4	30.99	7.36	24.24	2.35*
280.0	281.4	31.01	7.43	24.25	1.93
290.3	291.7	31.02	7.40	24.26	4.13*
300.1	301.5	31.03	7.42	24.27	1.97*
310.1	311.6	31.05	7.45	24.28	1.91*
320.2	321.7	31.07	7.47	24.29	1.65*
330.1	331.7	31.09	7.49	24.30	1.60*
340.0	341.7	31.10	7.52	24.31	1.41*
360.1	361.8	31.12	7.55	24.32	1.30*
380.0	381.9	31.14	7.57	24.33	.92*
400.0	402.0	31.15	7.59	24.34	1.12*
420.2	422.3	31.16	7.60	24.34	.98*
440.1	442.2	31.16	7.61	24.34	1.01*
460.2	462.4	31.16	7.61	24.35	.99*
480.2	482.5	31.16	7.62	24.34	.97*

MAX DEPTH 490.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 41.90  
 DATE 13/ 6/78  
 TIME (PST) 2150

TAPE CZ0/78/ 4- 76  
 LONG W125 43.50  
 PASS NO. 13  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	10.67	12.15	7.82	89.63
2.1	2.1	17.13	11.21	12.94	91.03
5.0	5.0	26.95	9.24	20.83	55.62
10.1	10.1	28.70	8.49	22.30	29.78
15.1	15.1	29.52	7.88	23.02	14.28
20.2	20.2	30.02	7.47	23.47	11.01
25.1	25.2	30.28	7.18	23.71	7.61
30.2	30.3	30.34	7.02	23.78	6.39*
35.1	35.3	30.36	6.97	23.80	6.03*
40.2	40.4	30.44	6.77	23.89	4.54
45.0	45.2	30.46	6.79	23.91	3.43*
50.1	50.3	30.48	6.79	23.92	2.87*
60.0	60.3	30.52	6.80	23.95	3.30
70.3	70.6	30.57	6.96	23.97	2.31*
80.1	80.5	30.63	7.11	23.99	2.66*
90.0	90.5	30.71	7.36	24.02	2.68*
100.1	100.6	30.74	7.47	24.04	1.97*
110.1	110.6	30.77	7.50	24.05	2.88*
120.0	120.6	30.80	7.60	24.07	2.46*
130.1	130.7	30.85	7.71	24.09	1.78*
140.1	140.7	30.85	7.73	24.09	2.22*
150.1	150.8	30.88	7.71	24.11	2.55
160.2	161.0	30.90	7.70	24.13	2.43*
170.1	170.9	30.92	7.72	24.14	1.79*
180.2	181.0	30.93	7.69	24.15	3.20*
190.0	190.9	30.95	7.69	24.17	1.75*
200.1	201.0	30.95	7.69	24.17	1.52*
210.2	211.2	30.96	7.65	24.18	1.87*
220.0	221.1	30.97	7.61	24.20	3.87*
230.1	231.2	30.99	7.58	24.22	1.99*
240.0	241.2	30.99	7.56	24.22	2.08*
250.1	251.3	31.00	7.53	24.23	1.61*
260.1	261.3	31.01	7.51	24.24	1.41*
270.1	271.4	31.02	7.51	24.25	1.75*
280.2	281.6	31.03	7.52	24.26	1.81*
290.0	291.4	31.05	7.52	24.27	1.41*
300.1	301.6	31.05	7.53	24.27	1.43*
310.0	311.5	31.06	7.54	24.28	1.78*
320.0	321.6	31.09	7.54	24.30	1.60*
330.0	331.6	31.09	7.54	24.30	1.56*
340.1	341.7	31.10	7.54	24.30	1.92*
360.2	361.9	31.13	7.56	24.32	1.54*
380.0	381.9	31.14	7.58	24.33	1.00*
400.2	402.1	31.15	7.59	24.34	.84*
420.1	422.1	31.15	7.60	24.34	.98*

MAX DEPTH 422.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 41.70  
 DATE 13/ 6/78  
 TIME (PST) 2222

TAPE CZ0/78/ 4- 77  
 LONG W125 46.60  
 PASS NO. 15  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	7.10	12.63	5.00	130.35
2.1	2.1	18.27	11.00	13.85	107.01
5.1	5.1	27.11	8.96	21.00	61.13
10.0	10.1	28.65	8.36	22.28	16.69
15.2	15.3	29.60	7.80	23.10	7.79
20.0	20.1	29.93	7.60	23.38	8.95
25.1	25.2	30.12	7.35	23.56	8.57
30.2	30.3	30.27	7.26	23.70	8.48
35.2	35.3	30.33	7.13	23.76	5.82
40.1	40.3	30.41	7.00	23.84	5.91
45.2	45.4	30.45	6.87	23.88	5.33*
50.0	50.2	30.46	6.94	23.89	1.75*
60.2	60.5	30.48	6.79	23.92	3.51
70.2	70.5	30.57	7.03	23.96	3.44*
80.1	80.4	30.62	7.19	23.98	2.65*
90.1	90.5	30.68	7.35	24.00	2.92*
100.1	100.5	30.72	7.45	24.02	1.81*
110.1	110.6	30.76	7.56	24.04	2.01*
120.0	120.6	30.78	7.62	24.05	2.35*
130.1	130.7	30.82	7.67	24.07	1.70*
140.0	140.7	30.84	7.71	24.08	1.78*
150.2	150.9	30.86	7.72	24.10	1.23*
160.1	160.8	30.88	7.73	24.11	2.93*
170.2	171.0	30.89	7.71	24.12	2.37*
180.1	181.0	30.92	7.74	24.14	1.56*
190.0	190.9	30.94	7.73	24.15	1.91*
200.1	201.1	30.95	7.70	24.17	1.82*
210.2	211.2	30.97	7.67	24.19	3.56*
220.1	221.1	30.98	7.66	24.20	1.79*
230.2	231.3	30.99	7.64	24.21	1.87*
240.3	241.5	31.00	7.62	24.22	1.53*
250.2	251.4	30.99	7.62	24.21	1.62*
260.3	261.5	31.02	7.61	24.23	2.07*
270.3	271.6	31.03	7.59	24.24	2.20*
280.0	281.4	31.03	7.59	24.25	1.44*
290.1	291.5	31.03	7.58	24.25	1.37*
300.1	301.5	31.05	7.57	24.26	1.98*
310.1	311.6	31.05	7.53	24.27	1.46*
320.2	321.8	31.07	7.53	24.28	1.89*
330.0	331.6	31.08	7.53	24.29	3.94*
340.3	341.9	31.08	7.53	24.29	1.58*
360.1	361.8	31.11	7.55	24.31	+

MAX DEPTH 370.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 41.60  
 DATE 13/ 6/78  
 TIME (PST) 2252

TAPE CZ0/78/ 4- 78  
 LONG W125 49.30  
 PASS NO. 17  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	12.56	12.01	9.30	173.28
2.1	2.1	24.98	9.91	19.20	93.19
5.1	5.1	27.64	9.14	21.38	40.00
10.1	10.1	29.54	8.12	23.00	22.73
15.1	15.1	29.97	7.81	23.39	8.65
20.1	20.2	30.16	7.72	23.55	6.45*
25.0	25.1	30.27	7.47	23.66	8.61*
30.1	30.2	30.32	7.29	23.73	5.14
35.0	35.2	30.38	7.25	23.78	4.72
40.1	40.3	30.42	7.13	23.83	4.61*
45.1	45.3	30.43	7.04	23.85	4.02*
50.2	50.4	30.47	7.09	23.87	4.57
60.1	60.4	30.51	7.14	23.90	2.47*
70.1	70.4	30.55	7.15	23.93	3.26*
80.1	80.4	30.56	7.14	23.94	1.93*
90.0	90.5	30.58	7.14	23.95	2.24*
100.1	100.6	30.61	7.18	23.97	1.56*
110.0	110.5	30.63	7.22	23.98	3.73
120.2	120.7	30.73	7.54	24.02	3.04*
130.1	130.7	30.78	7.56	24.05	1.97*
140.1	140.8	30.77	7.57	24.04	1.74*
150.1	150.8	30.79	7.61	24.05	2.17*
160.2	160.9	30.84	7.70	24.08	1.97*
170.0	170.8	30.86	7.76	24.09	2.69*
180.3	181.1	30.87	7.75	24.10	1.72*
190.2	191.1	30.90	7.77	24.12	2.05*
200.1	201.0	30.90	7.76	24.12	2.40*
210.2	211.1	30.93	7.74	24.14	2.12*
220.0	221.1	30.96	7.73	24.17	3.12*
230.1	231.2	30.98	7.72	24.19	2.38*
240.1	241.2	30.99	7.70	24.20	1.77*
250.1	251.3	31.00	7.66	24.21	2.88*
260.2	261.4	31.00	7.65	24.21	2.11*
270.3	271.6	31.01	7.58	24.23	1.76*
280.0	281.4	31.03	7.57	24.25	2.31*
290.2	291.6	31.04	7.56	24.25	1.88*
300.1	301.5	31.06	7.56	24.27	1.84*
310.1	311.6	31.07	7.52	24.28	3.97*
320.2	321.8	31.08	7.54	24.29	1.92*
330.2	331.8	31.10	7.54	24.31	+

MAX DEPTH 332.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 41.10  
 DATE 13/ 6/78  
 TIME (PST) 2321

TAPE CZ0/78/ 4- 79  
 LONG W125 51.90  
 PASS NO. 19  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	8.32	12.34	5.98	215.94
2.1	2.1	26.53	9.32	20.49	105.33
5.2	5.2	28.92	8.57	22.46	25.98
10.1	10.1	29.61	8.25	23.05	17.33
15.0	15.1	29.97	8.09	23.34	11.52
20.0	20.1	30.14	7.84	23.52	10.29
25.1	25.2	30.31	7.50	23.70	6.92
30.1	30.2	30.38	7.50	23.75	6.28*
35.1	35.3	30.44	7.53	23.79	5.66
40.1	40.2	30.47	7.36	23.84	6.99
45.2	45.4	30.49	7.22	23.87	4.93*
50.2	50.4	30.52	7.11	23.91	3.51*
60.1	60.4	30.54	7.08	23.93	2.79*
70.0	70.3	30.59	7.18	23.96	3.11*
80.0	80.4	30.62	7.25	23.97	4.29
90.0	90.4	30.72	7.69	23.99	1.25*
100.0	100.5	30.75	7.73	24.01	2.30*
110.1	110.6	30.77	7.74	24.02	2.10*
120.1	120.7	30.79	7.76	24.04	2.52*
130.0	130.6	30.81	7.75	24.05	1.95
140.1	140.8	30.84	7.77	24.07	2.94*
150.2	150.9	30.85	7.77	24.08	1.84*
160.0	160.7	30.86	7.78	24.09	1.65*
170.2	171.0	30.88	7.78	24.10	1.97*
180.1	180.9	30.89	7.79	24.11	2.63*
190.0	190.9	30.93	7.78	24.14	2.23*
200.2	201.2	30.94	7.77	24.15	1.23*
210.1	211.1	30.93	7.72	24.15	2.18*
220.1	221.2	30.96	7.75	24.17	2.00*
230.1	231.2	30.97	7.74	24.18	1.75*
240.1	241.3	30.98	7.73	24.18	1.14*
250.2	251.3	30.98	7.73	24.19	1.66*
260.1	261.3	30.98	7.70	24.19	1.42*
270.2	271.4	31.00	7.69	24.21	1.69*
280.2	281.6	31.01	7.64	24.22	2.12*
290.0	291.4	31.01	7.62	24.23	1.78*
300.0	301.4	31.03	7.61	24.24	2.04*
310.2	311.7	31.03	7.57	24.25	1.86*
320.1	321.6	31.04	7.56	24.26	4.76

MAX DEPTH 322.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 40.70  
 DATE 13/ 6/78  
 TIME (PST) 2348

TAPE CZ0/78/ 4- 80  
 LONG W125 54.40  
 PASS NO. 21  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	10.99	12.34	8.04	99.80
2.2	2.2	22.37	11.09	17.00	97.13
5.1	5.1	28.70	8.64	22.28	26.29
10.0	10.0	29.38	8.31	22.86	16.20
15.1	15.1	29.70	8.23	23.12	15.51
20.0	20.1	30.05	8.03	23.42	11.15
25.1	25.2	30.22	7.88	23.57	10.44
30.1	30.2	30.37	7.60	23.73	6.83
35.1	35.2	30.44	7.37	23.82	7.24
40.1	40.3	30.49	7.51	23.84	4.54*
45.1	45.3	30.55	7.47	23.89	9.07
50.1	50.3	30.60	7.57	23.91	7.65*
60.1	60.3	30.66	7.72	23.94	4.24*
70.1	70.4	30.74	7.76	23.99	3.58*
80.0	80.4	30.77	7.77	24.02	2.77*
90.1	90.5	30.79	7.77	24.03	3.10*
100.0	100.5	30.83	7.79	24.06	2.38*
110.1	110.6	30.84	7.79	24.07	2.49*
120.1	120.7	30.87	7.79	24.09	3.30*
130.1	130.7	30.88	7.80	24.10	1.44*
140.1	140.8	30.88	7.80	24.10	1.51*
150.1	150.8	30.88	7.80	24.10	1.98*
160.1	160.8	30.90	7.81	24.12	2.12*
170.1	170.9	30.93	7.81	24.13	1.95*
180.2	181.0	30.94	7.79	24.15	2.18*
190.2	191.1	30.96	7.77	24.17	2.24*
200.2	201.1	30.97	7.78	24.18	2.05*
210.1	211.1	30.99	7.76	24.19	2.21*
220.0	221.1	31.00	7.74	24.20	1.89*
230.0	231.1	31.01	7.74	24.21	4.38
240.1	241.2	31.02	7.69	24.23	1.88*
250.2	251.4	31.03	7.68	24.23	1.52*
260.1	261.3	31.03	7.67	24.24	1.74*
270.0	271.3	31.04	7.63	24.25	2.28*
280.1	281.4	31.04	7.60	24.26	1.98*
290.1	291.5	31.04	7.60	24.25	+
300.1	301.5	31.05	7.59	24.26	1.57*
310.1	311.6	31.05	7.57	24.26	1.57*
320.2	321.7	31.05	7.57	24.26	1.25*
330.2	331.8	31.05	7.57	24.27	1.06*
340.1	341.7	31.05	7.57	24.27	1.05*
360.3	362.0	31.05	7.56	24.27	.74*
380.0	381.9	31.06	7.56	24.28	.91*

MAX DEPTH 394.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 14/ 6/78  
 TIME (PST) 0025

TAPE CZ0/78/ 4- 81  
 LONG W125 57.20  
 PASS NO. 23  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	19.19	11.11	14.55	132.74
2.0	2.0	26.45	9.50	20.41	68.93
5.1	5.1	28.80	8.63	22.36	25.24
10.0	10.0	29.76	8.20	23.17	14.26
15.1	15.1	30.09	8.02	23.45	9.91
20.1	20.2	30.32	7.90	23.65	10.69
25.2	25.3	30.45	7.82	23.76	8.22
30.1	30.3	30.52	7.75	23.82	6.18
35.1	35.3	30.49	7.50	23.84	5.51*
40.1	40.2	30.49	7.47	23.84	4.64*
45.1	45.3	30.62	7.59	23.92	3.06*
50.1	50.3	30.63	7.63	23.93	2.49*
60.1	60.4	30.68	7.72	23.96	2.92*
70.1	70.4	30.73	7.74	23.99	3.30*
80.0	80.4	30.77	7.76	24.02	2.27*
90.1	90.5	30.78	7.77	24.02	.94*
100.1	100.5	30.79	7.77	24.03	1.18*
110.1	110.6	30.80	7.79	24.04	2.21*
120.1	120.7	30.82	7.80	24.06	3.69
130.0	130.6	30.85	7.80	24.08	1.73*
140.2	140.8	30.86	7.79	24.08	1.85*
150.3	151.0	30.88	7.79	24.10	2.30
160.1	160.8	30.92	7.80	24.13	3.11*
170.1	170.9	30.94	7.79	24.15	1.74*
180.1	181.0	30.95	7.79	24.16	2.06*
190.1	191.0	30.98	7.76	24.18	4.06*
200.2	201.1	30.99	7.73	24.20	1.94*
210.2	211.2	31.00	7.73	24.20	2.14*
220.1	221.1	31.02	7.70	24.22	2.03*
230.1	231.2	31.03	7.67	24.23	2.23*
240.1	241.3	31.04	7.61	24.25	1.55*
250.1	251.3	31.03	7.60	24.25	1.39*
260.0	261.3	31.04	7.59	24.25	1.26*
270.2	271.5	31.04	7.59	24.25	1.00*
280.0	281.4	31.04	7.58	24.25	.65*
290.1	291.5	31.04	7.57	24.26	.93*
300.2	301.6	31.04	7.57	24.26	1.08*
310.2	311.6	31.04	7.56	24.26	1.10*
320.2	321.7	31.05	7.56	24.26	1.12*
330.4	331.9	31.06	7.56	24.27	.60*

MAX DEPTH 338.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 14/ 6/78  
 TIME (PST) 0052

TAPE CZ0/78/ 4- 82  
 LONG W125 59.50  
 PASS NO. 25  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	13.96	11.48	10.46	162.10
2.1	2.1	24.71	9.87	19.00	93.80
5.0	5.0	27.55	9.13	21.31	34.61
10.1	10.1	29.51	8.31	22.96	22.98
15.2	15.2	29.94	8.10	23.33	7.43
20.0	20.1	29.97	8.06	23.35	7.55*
25.0	25.1	30.12	7.99	23.48	10.50
30.2	30.3	30.30	7.89	23.64	7.39*
35.1	35.3	30.57	7.79	23.86	9.86*
40.1	40.3	30.59	7.78	23.88	6.87*
45.0	45.2	30.63	7.77	23.91	3.75*
50.0	50.2	30.64	7.77	23.92	3.91*
60.0	60.3	30.70	7.74	23.97	4.22
70.1	70.4	30.74	7.70	24.00	2.28*
80.2	80.6	30.76	7.71	24.02	4.53*
MAX DEPTH	87.6				



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 39.90  
 DATE 14/ 6/78  
 TIME (PST) 0121

TAPE CZ0/78/ 4- 83  
 LONG W126 4.20  
 PASS NO. 27  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	8-V
.0	.0	18.44	11.35	13.93	90.96
2.1	2.1	24.68	10.33	18.91	75.10
5.2	5.2	28.34	9.01	21.94	31.06
10.1	10.2	29.84	8.33	23.21	16.60
15.2	15.2	30.25	8.00	23.58	10.49
20.1	20.2	30.41	7.85	23.73	11.98
25.0	25.1	30.51	7.79	23.81	6.55*
30.2	30.3	30.57	7.77	23.86	6.43*
35.1	35.3	30.65	7.75	23.93	5.42*
40.0	40.2	30.68	7.75	23.95	4.39*
45.1	45.3	30.72	7.75	23.99	3.24*
50.2	50.4	30.73	7.75	23.99	2.56*
60.0	60.3	30.79	7.75	24.03	5.22
70.1	70.4	31.04	8.03	24.20	5.53
80.0	80.4	31.14	8.01	24.28	4.61
90.1	90.6	31.26	8.01	24.37	4.18
100.1	100.6	31.34	8.00	24.43	4.24
110.0	110.6	31.38	8.02	24.46	1.80*
120.1	120.7	31.39	8.02	24.47	2.26*
130.1	130.7	31.41	8.03	24.48	2.51*
140.2	140.9	31.44	8.04	24.51	3.00*
150.2	150.9	31.46	8.04	24.52	1.93*
160.1	160.9	31.48	8.05	24.53	2.22*
170.1	171.0	31.49	8.06	24.54	2.09*
180.2	181.1	31.49	8.05	24.54	+
190.2	191.2	31.51	8.06	24.55	+

MAX DEPTH 193.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 39.20  
 DATE 14/ 6/78  
 TIME (PST) 0205

TAPE CZ0/78/ 4- 84  
 LONG W126 12.50  
 PASS NO. 29  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	13.86	12.40	10.25	35.51
2.1	2.1	15.72	12.20	11.71	58.30
5.0	5.0	22.98	10.55	17.56	109.30
10.0	10.0	29.42	8.66	22.84	21.65
15.2	15.2	30.31	8.01	23.63	21.68
20.1	20.2	30.48	7.83	23.79	11.46
25.1	25.2	30.62	7.76	23.90	7.17
30.1	30.2	30.70	7.75	23.97	7.99
35.0	35.2	30.76	7.81	24.00	5.88*
40.1	40.2	30.86	7.93	24.06	5.00
45.1	45.3	30.94	8.02	24.12	5.70
50.2	50.5	31.03	8.07	24.18	7.02*
60.2	60.5	31.19	8.08	24.31	5.07
70.0	70.4	31.28	8.07	24.37	3.10*
80.1	80.5	31.31	8.06	24.40	2.51*
90.1	90.6	31.35	8.04	24.43	2.24*
100.1	100.6	31.36	8.04	24.44	1.90*
110.0	110.6	31.38	8.05	24.45	2.28*
120.2	120.8	31.41	8.06	24.48	3.37*
130.1	130.7	31.44	8.08	24.50	3.26*
140.0	140.7	31.48	8.07	24.53	3.03
150.1	150.8	31.52	8.07	24.57	2.44*
160.1	161.0	31.54	8.07	24.58	1.85*
170.3	171.1	31.54	8.07	24.58	1.58*
180.0	180.9	31.56	8.07	24.60	1.94*
190.2	191.1	31.58	8.07	24.61	1.07*
200.1	201.1	31.58	8.07	24.61	+
210.1	211.2	31.58	8.07	24.61	+

MAX DEPTH 210.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 16 KNIGHT INLET 1978  
 LAT N50 38.50  
 DATE 14/ 6/78  
 TIME (PST) 0234

TAPE CZ0/78/ 4- 85  
 LONG W126 17.30  
 PASS NO. 31  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	16.16	12.27	12.03	+
2.1	2.1	16.08	12.27	11.98	49.74
5.2	5.2	26.79	10.38	20.53	86.84
10.1	10.2	29.63	9.05	22.94	22.98
15.1	15.2	30.06	8.47	23.36	20.74
20.1	20.2	30.53	7.96	23.81	14.08*
25.2	25.3	30.60	8.02	23.85	6.23*
30.2	30.3	30.69	8.06	23.92	5.35
35.2	35.3	30.76	8.30	23.94	6.11*
40.1	40.2	30.79	8.31	23.96	4.36
45.1	45.3	30.85	8.31	24.00	4.36
50.0	50.2	30.90	8.27	24.05	5.58
60.0	60.3	31.05	8.16	24.18	4.93*
70.1	70.4	31.15	8.09	24.27	7.62*
80.1	80.5	31.21	8.06	24.32	4.76*
90.2	90.6	31.30	8.04	24.39	4.22*
100.1	100.6	31.35	8.05	24.43	2.70*
110.2	110.7	31.37	8.04	24.45	2.15*
120.0	120.6	31.39	8.05	24.47	2.34*
130.1	130.7	31.41	8.05	24.48	3.07*
140.2	140.9	31.46	8.06	24.52	3.57*
150.0	150.8	31.50	8.06	24.55	7.08
160.0	160.8	31.56	8.07	24.59	2.37*
170.1	171.0	31.58	8.07	24.61	2.40*
180.0	180.9	31.62	8.07	24.64	3.29*
190.0	191.0	31.61	8.07	24.63	+
200.0	201.1	31.61	8.07	24.63	1.90*
210.1	211.2	31.64	8.07	24.66	2.50*
220.1	221.2	31.65	8.07	24.66	1.12*
230.1	231.3	31.66	8.07	24.67	1.24*
240.0	241.3	31.66	8.07	24.67	2.05*

MAX DEPTH 243.8

CRUISE NO. 17





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N51 2.30  
 DATE 25/ 7/78  
 TIME (PST) 2303

TAPE CZ0/78/ 9- 99  
 LONG W125 33.80  
 PASS NO. 20  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	P-V
.4	.4	4.71	8.40	3.61	87.68
2.0	2.0	4.71	8.39	3.61	24.93*
5.2	5.1	4.72	8.30	3.63	63.72
10.1	10.1	27.54	8.76	21.36	39.75
15.1	15.1	29.12	7.89	22.72	24.20
20.1	20.2	29.69	7.28	23.24	15.42
25.2	25.3	29.93	6.98	23.47	8.75
30.1	30.2	30.10	6.82	23.62	9.23
35.1	35.2	30.22	6.75	23.72	5.51
40.0	40.2	30.33	6.70	23.82	6.17
45.0	45.2	30.38	6.67	23.86	5.71*
50.2	50.4	30.44	6.64	23.91	4.88*
60.1	60.4	30.47	6.61	23.94	4.39
70.1	70.4	30.52	6.58	23.98	3.60*
80.0	80.4	30.54	6.61	23.99	19.41
90.1	90.5	30.66	6.82	24.06	3.45
100.0	100.5	30.69	6.90	24.07	3.05*
110.1	110.6	30.75	7.05	24.10	2.56*
120.1	120.7	30.78	7.11	24.12	2.71*
130.2	130.8	30.82	7.17	24.14	.93*
140.1	140.7	30.82	7.21	24.14	

MAX DEPTH 142.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 54.30  
 DATE 25/ 7/78  
 TIME (PST) 2149

TAPE CZ0/78/ 9-100  
 LONG W125 32.80  
 PASS NO. 18  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.6	.6	4.32	11.67	2.98	12.45
2.0	2.0	4.35	11.39	3.04	7.78
5.1	5.0	4.37	11.28	3.07	31.92*
10.1	10.1	27.80	9.05	21.52	79.06
15.1	15.1	28.96	8.16	22.55	32.86
20.0	20.1	29.64	7.48	23.18	15.60
25.0	25.1	29.86	7.25	23.38	10.35
30.2	30.3	30.00	7.00	23.52	8.05
35.2	35.3	30.09	6.88	23.61	6.15*
40.0	40.2	30.14	6.82	23.65	5.82
45.0	45.2	30.21	6.74	23.72	6.95
50.1	50.3	30.27	6.68	23.77	5.73
60.0	60.3	30.35	6.62	23.84	5.18*
70.1	70.4	30.42	6.57	23.90	3.86*
80.0	80.4	30.48	6.67	23.94	3.65*
90.1	90.5	30.56	6.80	23.99	3.52*
100.1	100.5	30.60	6.92	24.00	2.78*
110.1	110.6	30.65	7.04	24.02	2.51*
120.1	120.6	30.68	7.11	24.04	3.95
130.0	130.6	30.71	7.16	24.06	.93*

MAX DEPTH 133.8

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 17 KNIGHT INLET 1978

LAT N50 52.40

DATE 25/ 7/78

TIME (PST) 2113

TAPE CZ0/78/ 9-101

LONG W125 38.50

PASS NO. 17

STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.4	.4	4.17	13.10	2.68	28.41
2.1	2.1	4.30	11.86	2.94	20.80
5.1	5.0	4.36	11.30	3.06	11.03
10.1	10.1	28.03	8.77	21.74	59.30
15.1	15.1	29.33	7.92	22.87	26.15
20.1	20.2	29.80	7.55	23.29	17.10
25.1	25.2	30.06	7.22	23.54	8.70
30.1	30.2	30.15	7.13	23.62	7.42*
35.1	35.2	30.23	6.95	23.71	6.66
40.0	40.2	30.31	6.79	23.79	6.77
45.0	45.2	30.37	6.71	23.85	5.56*
50.1	50.3	30.41	6.65	23.89	4.92
60.0	60.3	30.46	6.64	23.93	2.73*
70.2	70.5	30.55	6.68	23.99	3.67*
80.0	80.4	30.59	6.82	24.01	2.52*
90.1	90.5	30.64	6.85	24.04	3.86*
100.0	100.5	30.68	7.04	24.05	4.47
110.2	110.7	30.73	7.16	24.07	2.74*
120.0	120.6	30.77	7.25	24.09	2.67*
130.2	130.8	30.81	7.31	24.12	4.26
140.1	140.7	30.82	7.28	24.13	

MAX DEPTH 143.0



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 47.90  
 DATE 25/ 7/78  
 TIME (PST) 2031

TAPE CZ0/78/ 9-102  
 LONG W125 37.00  
 PASS NO. 16  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.6	.6	4.15	13.32	2.64	113.10
2.0	2.0	4.15	13.32	2.64	29.55*
5.1	5.0	4.14	13.41	2.62	75.70
10.1	10.1	27.26	8.64	21.16	38.30
15.1	15.1	29.30	7.86	22.86	20.32
20.1	20.2	29.78	7.58	23.27	11.89
25.0	25.1	29.94	7.41	23.42	13.45
30.1	30.2	30.11	7.23	23.58	6.49
35.1	35.2	30.19	7.14	23.65	5.86
40.0	40.2	30.24	7.03	23.71	5.67
45.0	45.2	30.28	6.94	23.75	6.53
50.1	50.3	30.31	6.82	23.79	6.41*
60.0	60.3	30.41	6.65	23.89	4.72
70.1	70.4	30.46	6.63	23.93	4.90
80.0	80.4	30.54	6.71	23.98	4.44
90.1	90.5	30.64	7.04	24.02	3.44*
100.1	100.6	30.70	7.14	24.05	3.92
110.1	110.6	30.74	7.24	24.07	2.76
120.0	120.6	30.78	7.33	24.09	2.39*
130.1	130.7	30.80	7.39	24.10	2.01*
140.2	140.8	30.82	7.44	24.11	1.58*

MAX DEPTH 147.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 45.10  
 DATE 25/ 7/78  
 TIME (PST) 1955

TAPE CZ0/78/ 9-103  
 LONG W125 41.00  
 PASS NO. 14  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
1.3	1.3	4.11	13.69	2.55	20.10
2.0	2.0	4.11	13.66	2.56	14.63
5.1	5.0	4.17	13.08	2.69	33.44
10.1	10.1	27.22	8.63	21.13	60.56
15.1	15.1	28.80	8.10	22.44	18.08
20.0	20.1	29.49	7.81	23.02	23.54
25.0	25.1	29.97	7.51	23.43	13.08
30.1	30.2	30.11	7.41	23.55	7.37
35.1	35.2	30.23	7.32	23.66	8.53
40.0	40.2	30.25	7.19	23.69	7.34*
45.0	45.2	30.35	6.96	23.80	6.23*
50.1	50.3	30.37	6.89	23.83	5.17*
60.0	60.3	30.43	6.73	23.89	3.82*
70.1	70.4	30.49	6.69	23.94	8.39
80.0	80.4	30.63	6.92	24.03	3.24*
90.1	90.5	30.65	7.01	24.03	3.07*
100.0	100.5	30.72	7.19	24.06	4.38
110.2	110.7	30.81	7.50	24.09	2.23*
120.0	120.6	30.83	7.55	24.10	2.17*
130.1	130.7	30.84	7.53	24.11	2.23*
140.2	140.8	30.89	7.69	24.13	1.58*

MAX DEPTH 146.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 41.90  
 DATE 25/ 7/78  
 TIME (PST) 1920

TAPE CZ0/78/ 9-104  
 LONG W125 43.50  
 PASS NO. 13  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.2	.2	4.08	13.97	2.49	30.56
2.1	2.1	4.08	13.97	2.49	16.76*
5.1	5.0	4.09	13.90	2.51	43.03
10.2	10.2	29.39	8.88	20.45	55.49
15.1	15.1	29.20	8.02	22.76	15.73
20.0	20.1	29.87	7.83	23.31	15.96
25.0	25.1	30.02	7.76	23.44	15.14
30.1	30.2	30.22	7.70	23.60	9.51
35.1	35.2	30.32	7.42	23.72	8.54
40.0	40.2	30.33	7.39	23.73	7.09*
45.0	45.2	30.42	7.26	23.82	7.21
50.2	50.4	30.44	7.13	23.85	4.76*
60.1	60.4	30.44	6.87	23.88	3.33*
70.1	70.4	30.52	6.84	23.95	4.75
80.0	80.4	30.59	6.98	23.99	2.48*
90.2	90.6	30.61	7.06	23.99	2.32*
100.0	100.5	30.68	7.22	24.03	3.97
110.1	110.6	30.74	7.41	24.05	2.58*
120.2	120.7	30.79	7.53	24.07	1.76*
130.0	130.6	30.81	7.62	24.07	1.19*
140.1	140.7	30.83	7.67	24.08	1.58*

MAX DEPTH 146.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 41.70  
 DATE 25/ 7/78  
 TIME (PST) 1849

TAPE CZ0/78/ 9-105  
 LONG W125 46.60  
 PASS NO. 12  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.5	.5	4.05	14.99	2.31	+
2.0	2.0	4.09	14.99	2.34	20.56*
5.1	5.0	4.15	15.01	2.38	60.86*
10.2	10.2	25.62	9.09	19.82	52.21
15.2	15.2	29.15	8.16	22.70	16.56
20.0	20.1	29.88	7.96	23.30	14.39
25.1	25.2	30.13	7.81	23.52	10.74
30.1	30.2	30.32	7.58	23.69	10.77*
35.1	35.2	30.40	7.41	23.78	6.31*
40.0	40.2	30.40	7.27	23.80	5.19*
45.0	45.2	30.40	7.23	23.80	5.01
50.1	50.3	30.48	7.02	23.89	5.71
60.0	60.3	30.57	7.07	23.96	4.48*
70.1	70.4	30.64	7.22	23.99	2.68*
80.0	80.4	30.70	7.36	24.02	1.72*
90.1	90.5	30.75	7.49	24.04	1.61*
100.0	100.5	30.76	7.52	24.05	2.37*
110.1	110.6	30.82	7.66	24.08	1.89*
120.1	120.6	30.82	7.69	24.07	1.40*
130.1	130.7	30.85	7.72	24.09	4.61*
140.1	140.7	30.87	7.76	24.10	1.58*

MAX DEPTH 148.3



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 17 KNIGHT INLET 1978

LAT N50 41.60

DATE 25/ 7/78

TIME (PST) 1812

TAPE CZ0/78/ 9-106

LONG W125 49.30

PASS NO. 11

STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.3	.3	4.00	14.87	2.29	13.83
2.0	2.0	4.32	14.27	2.63	9.61
5.1	5.0	4.83	13.52	3.13	33.76
10.0	10.0	25.05	9.51	19.32	92.70
15.1	15.1	28.25	8.40	21.97	41.73
20.1	20.2	29.45	8.10	22.94	15.57
25.1	25.2	29.81	7.94	23.25	5.93
30.1	30.2	30.01	7.86	23.42	11.36
35.2	35.3	30.26	7.70	23.63	4.44
40.0	40.2	30.30	7.68	23.67	7.04*
45.0	45.2	30.45	7.61	23.79	6.54*
50.1	50.3	30.48	7.34	23.85	5.09*
60.1	60.4	30.52	7.38	23.88	1.82*
70.1	70.4	30.49	7.05	23.90	5.18*
80.0	80.4	30.60	7.13	23.97	4.45*
90.1	90.5	30.69	7.34	24.02	3.03*
100.1	100.6	30.73	7.49	24.03	2.26*
110.1	110.6	30.78	7.60	24.05	2.35*
120.1	120.6	30.83	7.69	24.08	2.03*
130.1	130.7	30.84	7.72	24.08	2.05*
140.1	140.7	30.86	7.76	24.09	1.99*

MAX DEPTH 148.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 41.10  
 DATE 25/ 7/78  
 TIME (PST) 1745

TAPE CZ0/78/ 9-107  
 LONG W125 51.90  
 PASS NO. 10  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	R-V
.8	.8	4.32	15.70	2.40	23.96
2.0	2.0	4.77	15.92	2.71	40.65
5.1	5.0	12.94	11.07	9.73	148.31
10.1	10.1	28.92	8.35	22.50	25.44
15.1	15.1	29.26	8.19	22.78	14.18
20.0	20.1	29.32	8.16	22.83	6.47*
25.0	25.1	29.39	8.13	22.89	5.50
30.1	30.2	29.54	8.04	23.02	11.52
35.1	35.2	29.69	8.01	23.14	4.54
40.1	40.2	29.90	7.98	23.31	13.97
45.0	45.2	30.24	7.88	23.59	6.49
50.1	50.3	30.31	7.64	23.68	8.32
60.0	60.3	30.45	7.44	23.82	5.37
70.1	70.4	30.63	7.70	23.92	6.96
80.0	80.4	30.70	7.68	23.98	2.48*
90.1	90.5	30.69	7.57	23.99	1.96*
100.0	100.5	30.73	7.57	24.02	4.23
110.1	110.6	30.70	7.29	24.03	4.26*
120.1	120.6	30.76	7.48	24.05	2.76*
130.1	130.7	30.82	7.64	24.08	4.24
140.1	140.7	30.87	7.80	24.10	
150.0	150.7	30.87	7.72	24.11	

MAX DEPTH 150.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 40.70  
 DATE 25/ 7/78  
 TIME (PST) 1704

TAPE CZ0/78/ 9-108  
 LONG W125 54.40  
 PASS NO. 8  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.6	.6	4.14	14.63	2.44	35.57
2.0	2.0	5.49	13.97	3.57	41.65
5.2	5.1	6.39	13.22	5.92	112.01
10.2	10.2	28.20	8.60	21.90	27.35
15.1	15.1	29.20	8.22	22.73	35.03
20.0	20.1	29.87	8.01	23.28	8.15
25.1	25.2	29.92	7.97	23.33	7.68
30.1	30.2	30.29	7.87	23.63	8.20
35.1	35.2	30.35	7.85	23.68	4.42
40.0	40.2	30.37	7.82	23.70	6.75
45.0	45.2	30.42	7.70	23.76	6.41*
50.2	50.4	30.44	7.38	23.82	4.72*
60.0	60.3	30.45	7.28	23.84	2.81*
70.1	70.4	30.47	7.23	23.86	3.60
80.0	80.4	30.55	7.11	23.94	3.94*
90.1	90.5	30.59	7.20	23.96	2.90*
100.1	100.5	30.65	7.23	24.00	8.35*
110.0	110.5	30.64	7.18	24.00	+
120.1	120.6	30.71	7.35	24.03	3.28*
130.0	130.6	30.80	7.71	24.05	5.47
140.1	140.7	30.87	7.81	24.09	

MAX DEPTH 146.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 25/ 7/78  
 TIME (PST) 1633

TAPE CZ0/78/ 9-109  
 LONG W125 57.20  
 PASS NO. 7  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.6	.6	4.59	15.38	2.66	3.18
2.0	2.0	4.78	15.33	2.82	21.85
5.1	5.0	5.95	14.36	3.87	125.63
10.1	10.1	28.16	8.55	21.88	46.99
15.1	15.1	28.96	8.32	22.53	4.45
20.0	20.1	29.55	8.13	23.02	12.65
25.0	25.1	29.63	8.09	23.09	5.15
30.1	30.2	29.68	8.07	23.13	5.92
35.1	35.2	29.75	8.05	23.19	5.98*
40.2	40.3	29.83	8.03	23.25	7.91
45.0	45.2	29.98	7.98	23.37	9.95*
50.1	50.3	30.27	7.88	23.62	9.78
60.0	60.3	30.51	7.82	23.81	7.36*
70.2	70.5	30.58	7.79	23.87	4.14*
80.1	80.5	30.68	7.79	23.95	5.29*
90.1	90.5	30.66	7.78	23.93	+
100.2	100.6	30.71	7.78	23.97	9.71
110.1	110.6	30.82	7.80	24.06	3.77
120.2	120.7	30.85	7.81	24.08	3.80
130.1	130.7	30.89	7.84	24.11	6.06*
140.3	140.9	30.91	7.84	24.12	+

MAX DEPTH 148.8

CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 25/ 7/78  
 TIME (PST) 1610

TAPE CZ0/78/ 9-110  
 LONG W125 59.50  
 PASS NO. 6  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.6	.6	4.77	15.24	2.82	34.14
2.1	2.1	5.47	15.11	3.38	37.17
5.1	5.0	12.73	13.04	9.28	152.03
10.1	10.1	26.30	9.21	20.33	31.92
15.1	15.1	28.87	8.34	22.46	12.72
20.0	20.1	28.99	8.31	22.56	12.18*
25.0	25.1	29.49	8.13	22.97	12.05
30.1	30.2	30.01	7.94	23.40	13.10
35.1	35.2	30.33	7.82	23.67	7.54
40.0	40.2	30.50	7.80	23.81	6.55
45.0	45.2	30.53	7.79	23.83	+

MAX DEPTH 45.7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 39.90  
 DATE 25/ 7/78  
 TIME (PST) 1533

TAPE CZ0/78/ 9-111  
 LONG W126 4.20  
 PASS NO. 5  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.5	.5	8.26	14.80	5.57	107.87
2.1	2.1	7.61	14.94	5.05	31.38*
5.0	5.0	15.07	13.07	11.08	80.20
10.1	10.1	27.26	8.74	21.15	52.53
15.0	15.1	29.90	8.36	23.26	12.36
20.0	20.1	30.14	8.17	23.47	10.84
25.2	25.3	30.38	7.87	23.70	8.76
30.1	30.2	30.50	7.73	23.82	6.37*
35.1	35.2	30.55	7.73	23.86	5.96*
40.0	40.2	30.62	7.75	23.91	6.90
45.1	45.3	30.72	7.77	23.98	6.20
50.1	50.3	30.79	7.78	24.04	5.90
60.0	60.3	30.86	7.79	24.09	4.50*
70.1	70.4	30.94	7.86	24.14	5.30
80.1	80.5	31.13	8.01	24.27	5.27*
90.1	90.5	31.30	8.05	24.40	7.82
100.2	100.7	31.42	8.06	24.49	3.96*
110.0	110.6	31.49	8.07	24.54	5.60
120.2	120.8	31.59	8.08	24.62	3.28*
130.0	130.7	31.63	8.09	24.65	2.64*
140.1	140.8	31.64	8.09	24.66	2.82*
150.1	150.9	31.67	8.09	24.68	

MAX DEPTH 151.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 39.20  
 DATE 25/ 7/78  
 TIME (PST) 1443

TAPE CZ0/78/ 9-112  
 LONG W126 12.50  
 PASS NO. 4  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.7	.7	8.02	14.89	5.37	36.24
2.0	2.0	10.33	14.43	7.22	95.14
5.1	5.1	23.17	10.68	17.69	67.67
10.1	10.1	25.83	9.90	19.87	25.48
15.1	15.1	28.65	8.95	22.20	35.81
20.0	20.1	30.16	8.34	23.46	13.87
25.1	25.2	30.28	8.29	23.57	4.41
30.1	30.2	30.38	8.22	23.65	8.84*
35.1	35.2	30.56	8.09	23.81	7.62*
40.0	40.2	30.57	8.09	23.82	4.82*
45.0	45.2	30.59	8.06	23.84	4.17*
50.1	50.3	30.61	8.02	23.86	4.11*
60.0	60.3	30.77	8.00	23.99	7.12*
70.2	70.5	30.86	7.97	24.06	4.68*
80.0	80.4	31.02	8.04	24.18	4.60
90.1	90.5	31.09	8.04	24.23	4.48*
100.0	100.5	31.22	8.07	24.33	7.96
110.1	110.6	31.42	8.09	24.49	5.19*
120.1	120.7	31.51	8.07	24.56	4.72*
130.0	130.7	31.58	8.08	24.61	4.82
140.1	140.8	31.58	8.07	24.61	2.82*

MAX DEPTH 149.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 17 KNIGHT INLET 1978  
 LAT N50 38.50  
 DATE 25/ 7/78  
 TIME (PST) 1402

TAPE CZ0/78/ 9-113  
 LONG W126 17.30  
 PASS NO. 3  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.5	.5	10.65	14.79	7.40	+
2.0	2.0	10.78	14.70	7.52	43.34
5.0	5.0	16.44	13.37	12.08	59.03
10.1	10.1	27.89	9.56	21.52	58.34
15.1	15.1	29.48	8.75	22.87	18.09
20.1	20.2	29.77	8.75	23.10	12.24
25.0	25.1	30.05	8.82	23.31	5.77
30.1	30.2	30.25	8.63	23.49	9.08
35.1	35.2	30.47	8.43	23.69	11.72
40.0	40.2	30.59	8.37	23.80	5.25*
45.0	45.2	30.64	8.34	23.84	6.05*
50.1	50.3	30.70	8.33	23.89	5.19*
60.0	60.3	30.75	8.19	23.95	4.72*
70.1	70.4	30.84	8.12	24.03	3.80*
80.0	80.4	30.97	8.23	24.11	7.63
90.1	90.5	31.12	8.14	24.24	5.56
100.0	100.5	31.19	8.11	24.30	6.47
110.1	110.6	31.33	8.10	24.41	5.34*
120.1	120.7	31.43	8.09	24.49	3.39*
130.1	130.8	31.45	8.09	24.51	2.15*
140.2	140.9	31.46	8.09	24.52	3.21*
150.0	150.8	31.52	8.07	24.57	

MAX DEPTH 151.3

CRUISE NO. 18





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N51 2.30  
 DATE 27/ 9/78  
 TIME (PST) 0832

TAPE C20/78/ 9- 17  
 LONG W125 33.80  
 PASS NO. 33  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.61	7.46	2.03	254.29
2.1	2.1	25.07	8.48	19.48	118.21
5.1	5.1	27.82	8.40	21.62	39.81
10.1	10.1	29.43	7.56	22.99	18.49
15.2	15.3	29.77	7.20	23.31	15.00
20.1	20.2	29.99	6.97	23.52	9.14
25.2	25.3	30.18	6.78	23.69	13.39
30.3	30.4	30.37	6.67	23.85	7.95
35.1	35.2	30.44	6.63	23.91	6.36
40.2	40.4	30.51	6.63	23.97	5.68*
45.1	45.3	30.56	6.64	24.00	5.45
50.0	50.3	30.61	6.67	24.04	4.69*
60.3	60.5	30.71	6.86	24.09	3.72*
70.1	70.5	30.79	7.06	24.13	2.90*
80.2	80.6	30.84	7.15	24.15	4.49*
90.2	90.6	30.89	7.24	24.18	3.04*
100.1	100.6	30.93	7.31	24.21	4.25
110.2	110.7	30.99	7.38	24.24	2.52*
120.3	120.8	31.01	7.40	24.25	1.87*
130.0	130.6	31.03	7.44	24.27	2.16*
140.1	140.7	31.05	7.46	24.28	2.05*
150.3	151.0	31.07	7.50	24.29	1.89*
160.3	161.1	31.09	7.52	24.30	1.56*
170.2	171.0	31.10	7.53	24.31	1.68*
180.2	181.1	31.11	7.54	24.32	1.68*
190.3	191.2	31.12	7.55	24.32	1.13*
200.2	201.2	31.13	7.56	24.33	1.22*
210.2	211.2	31.14	7.58	24.33	1.01*
220.2	221.3	31.15	7.60	24.34	.99*
230.2	231.3	31.15	7.61	24.34	

MAX DEPTH 232.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 58.90  
 DATE 27/ 9/78  
 TIME (PST) 0758

TAPE CZ0/78/ 9- 18  
 LONG W125 33.20  
 PASS NO. 31  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	R-V
.0	.0	3.23	9.14	2.39	171.06
2.1	2.1	21.16	8.65	16.41	122.71
5.2	5.2	27.74	8.38	21.57	46.97
10.0	10.1	29.15	7.81	22.74	19.69
15.1	15.1	29.64	7.31	23.19	15.63
20.1	20.2	29.99	6.98	23.51	9.72
25.2	25.3	30.15	6.80	23.66	7.92
30.1	30.2	30.27	6.72	23.76	7.42
35.1	35.3	30.38	6.67	23.86	8.08
40.1	40.2	30.47	6.62	23.93	6.04
45.2	45.4	30.50	6.60	23.96	4.32
50.3	50.5	30.55	6.61	24.00	5.40*
60.0	60.3	30.67	6.77	24.07	6.13*
70.0	70.4	30.76	7.01	24.11	4.58
80.1	80.5	30.82	7.13	24.14	2.91*
90.2	90.7	30.88	7.24	24.18	2.93*
100.1	100.6	30.92	7.29	24.20	2.84*
110.1	110.6	30.99	7.37	24.24	2.81*
120.1	120.7	31.01	7.41	24.25	2.02*
130.2	130.8	31.02	7.43	24.26	1.97*
140.3	141.0	31.05	7.48	24.28	3.40
150.1	150.9	31.07	7.52	24.29	1.74*
160.2	160.9	31.09	7.55	24.30	2.05*
170.0	170.9	31.11	7.55	24.31	+

MAX DEPTH 170.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 54.30  
 DATE 27/ 9/78  
 TIME (PST) 0707

TAPE CZ0/78/ 9- 19  
 LONG W125 32.80  
 PASS NO. 29  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	10.74	9.89	8.17	42.93
2.0	2.0	16.38	9.51	14.15	30.14
5.2	5.2	27.88	8.39	21.67	45.06
10.0	10.0	29.21	7.80	22.80	21.27
15.1	15.2	29.82	7.26	23.34	14.17
20.1	20.2	29.96	7.05	23.48	11.21
25.0	25.1	30.16	6.90	23.65	7.42
30.2	30.3	30.31	6.75	23.80	8.90
35.1	35.3	30.40	6.67	23.88	6.44
40.4	40.5	30.46	6.64	23.93	4.95*
45.3	45.5	30.50	6.63	23.95	4.60*
50.1	50.4	30.53	6.63	23.98	5.37
60.3	60.6	30.67	6.76	24.07	5.42
70.1	70.4	30.78	7.05	24.12	3.80*
80.3	80.7	30.86	7.19	24.16	2.89*
90.2	90.6	30.91	7.29	24.19	2.57*
100.2	100.7	30.95	7.34	24.21	2.85*
110.1	110.6	30.98	7.38	24.23	2.31*
120.3	120.9	31.00	7.41	24.25	2.31*
130.3	130.9	31.03	7.46	24.27	1.94*
140.2	140.9	31.06	7.56	24.28	2.32*
150.3	151.0	31.10	7.60	24.30	2.03*
160.1	160.9	31.11	7.64	24.30	1.19*
170.0	170.9	31.11	7.57	24.31	1.94*
180.1	181.0	31.11	7.58	24.31	1.51*
190.2	191.2	31.12	7.58	24.32	1.00*
200.4	201.4	31.13	7.58	24.32	2.00*
210.2	211.2	31.16	7.61	24.35	.90*
220.4	221.5	31.17	7.71	24.34	.99*
230.3	231.4	31.19	7.77	24.35	+
240.1	241.2	31.21	7.81	24.36	1.19*
250.3	251.5	31.21	7.83	24.35	1.01*
260.3	261.5	31.22	7.84	24.36	1.23*
270.4	271.7	31.22	7.84	24.36	1.00*
280.3	281.7	31.22	7.85	24.36	.85*
290.3	291.7	31.23	7.85	24.37	.74*
300.3	301.7	31.23	7.85	24.37	.73*
310.0	311.5	31.23	7.85	24.36	.55*
320.3	321.9	31.23	7.86	24.37	.68*
330.1	331.7	31.23	7.86	24.37	+
340.1	341.8	31.24	7.86	24.37	.88*
360.3	362.0	31.24	7.86	24.37	+
380.1	382.0	31.24	7.86	24.38	.77*

MAX DEPTH 397.9



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 52.40  
 DATE 27/ 9/78  
 TIME (PST) 0618

TAPE CZ0/78/ 9- 20  
 LONG W125 38.50  
 PASS NO. 27  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	14.07	9.66	10.78	46.33
2.1	2.1	17.79	9.34	13.70	87.66
5.1	5.1	27.66	8.38	21.51	58.62
10.1	10.1	29.44	7.63	23.00	14.48
15.1	15.1	29.87	7.25	23.39	16.52
20.0	20.1	30.03	7.10	23.53	10.32*
25.2	25.3	30.13	6.96	23.63	10.21
30.0	30.2	30.26	6.84	23.74	8.63
35.2	35.3	30.42	6.75	23.88	7.30*
40.2	40.3	30.47	6.68	23.93	5.91
45.1	45.3	30.53	6.73	23.97	6.16*
50.2	50.5	30.62	6.90	24.02	5.53
60.1	60.4	30.73	7.18	24.06	4.22*
70.1	70.4	30.80	7.20	24.12	4.45*
80.3	80.6	30.84	7.19	24.15	3.73*
90.1	90.6	30.91	7.31	24.19	2.95*
100.1	100.5	30.95	7.36	24.21	2.71*
110.3	110.8	30.98	7.40	24.23	2.87*
120.2	120.7	31.01	7.44	24.25	2.79*
130.1	130.7	31.05	7.52	24.27	1.77*
140.0	140.7	31.06	7.56	24.28	1.65*
150.1	150.8	31.09	7.61	24.29	1.85*
160.3	161.1	31.11	7.64	24.30	1.85*
170.2	171.1	31.12	7.64	24.31	1.28*
180.1	181.0	31.12	7.63	24.31	.95*
190.0	191.0	31.13	7.63	24.32	1.23*
200.3	201.3	31.13	7.60	24.33	1.67*
210.0	211.1	31.14	7.60	24.33	3.75*
220.1	221.1	31.15	7.63	24.33	1.32*
230.0	231.1	31.17	7.68	24.34	1.20*
240.0	241.2	31.17	7.73	24.34	1.45*
250.0	251.2	31.20	7.80	24.35	1.55*
260.2	261.4	31.21	7.83	24.35	1.31*
270.2	271.6	31.22	7.84	24.36	1.03*
280.2	281.6	31.22	7.84	24.36	.80*
290.0	291.5	31.22	7.84	24.36	.99*
300.1	301.5	31.23	7.84	24.37	.87*
310.1	311.6	31.23	7.84	24.37	.76*
320.1	321.7	31.23	7.84	24.37	.82*
330.1	331.7	31.23	7.85	24.37	.91*
340.2	341.9	31.24	7.85	24.37	1.05*
360.1	361.9	31.24	7.85	24.37	.84*
380.3	382.1	31.24	7.85	24.38	.63*
400.0	402.0	31.24	7.84	24.38	.92*
420.0	422.1	31.25	7.85	24.38	.73*
440.0	442.2	31.25	7.86	24.38	.81*
460.0	462.3	31.25	7.86	24.38	

MAX DEPTH 468.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 47.90  
 DATE 27/ 9/78  
 TIME (PST) 0519

TAPE CZ0/78/ a- 21  
 LONG W125 37.00  
 PASS NO. 25  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	17.18	9.46	13.21	2.00
2.1	2.1	17.87	9.46	13.75	61.57
5.1	5.1	28.13	8.16	21.91	44.68
10.1	10.2	29.46	7.62	23.02	13.80
15.1	15.2	29.80	7.40	23.31	12.14
20.0	20.1	30.04	7.14	23.53	12.02
25.2	25.3	30.27	7.07	23.72	6.74
30.2	30.3	30.29	6.89	23.76	6.82*
35.2	35.3	30.40	6.90	23.84	5.60
40.1	40.2	30.50	7.00	23.91	9.48*
45.2	45.4	30.57	7.06	23.96	5.30*
50.2	50.4	30.63	7.19	23.98	5.68
60.1	60.4	30.70	7.06	24.06	4.91
70.0	70.3	30.84	7.48	24.11	3.57*
80.2	80.6	30.81	7.36	24.11	3.39*
90.3	90.7	30.90	7.31	24.18	2.53*
100.0	100.5	30.94	7.38	24.21	3.03*
110.3	110.8	30.99	7.44	24.24	2.19*
120.3	120.9	31.02	7.48	24.25	2.06*
130.0	130.6	31.05	7.54	24.27	2.49*
140.2	140.9	31.08	7.61	24.28	2.18*
150.1	150.9	31.11	7.66	24.30	2.13*
160.3	161.1	31.12	7.68	24.31	2.00*
170.3	171.1	31.13	7.69	24.31	1.37*
180.3	181.2	31.14	7.68	24.32	1.33*
190.0	190.9	31.13	7.63	24.32	3.73*
200.1	201.1	31.14	7.62	24.33	1.09*
210.0	211.1	31.15	7.63	24.33	.76*
220.2	221.3	31.15	7.66	24.33	.91*
230.0	231.1	31.16	7.70	24.34	.80*
240.3	241.5	31.18	7.75	24.34	1.06*
250.3	251.5	31.19	7.78	24.34	1.10*
260.2	261.4	31.20	7.81	24.35	1.51*
270.1	271.4	31.21	7.83	24.36	1.23*
280.1	281.5	31.22	7.83	24.36	1.09*
290.2	291.6	31.22	7.84	24.36	1.13*
300.0	301.5	31.23	7.84	24.37	1.30*
310.1	311.6	31.23	7.84	24.37	1.04*
320.1	321.7	31.24	7.84	24.37	.28*
330.2	331.8	31.23	7.83	24.37	.49*
340.2	341.9	31.24	7.83	24.38	.74*
360.0	361.8	31.24	7.84	24.37	.87*
380.1	382.0	31.24	7.84	24.38	.62*
400.3	402.2	31.24	7.84	24.38	.78*
420.1	422.1	31.24	7.85	24.38	.64*
440.0	442.2	31.25	7.85	24.38	.80*
460.0	462.3	31.25	7.86	24.38	.93*
480.0	482.4	31.26	7.86	24.38	.65*

MAX DEPTH 495.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 45.10  
 DATE 27/ 9/78  
 TIME (PST) 0432

TAPE CZ0/78/ 9- 22  
 LONG W125 41.00  
 PASS NO. 23  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	21.67	9.16	16.74	64.31
2.0	2.0	24.78	8.51	19.24	70.70
5.1	5.1	28.41	7.98	22.15	32.70
10.0	10.0	29.64	7.58	23.16	11.32
15.2	15.3	29.91	7.42	23.39	12.06
20.3	20.3	30.09	7.18	23.56	9.23
25.0	25.1	30.30	7.48	23.69	10.17*
30.2	30.3	30.42	7.24	23.82	8.15
35.1	35.3	30.51	7.35	23.87	7.39
40.1	40.3	30.68	7.46	23.99	5.92*
45.2	45.4	30.66	7.51	23.97	3.79*
50.0	50.3	30.67	7.31	24.00	4.23*
60.2	60.5	30.83	7.52	24.10	3.74*
70.0	70.4	30.89	7.63	24.13	3.92
80.0	80.4	30.93	7.68	24.16	3.30*
90.1	90.5	30.97	7.71	24.18	2.82*
100.1	100.6	30.97	7.49	24.21	2.89*
110.2	110.7	30.99	7.49	24.23	1.81*
120.3	120.8	31.02	7.52	24.25	2.61*
130.0	130.7	31.06	7.57	24.27	2.99
140.1	140.8	31.09	7.67	24.28	2.58*
150.1	150.9	31.11	7.70	24.29	1.54*
160.1	160.9	31.12	7.72	24.30	1.79*
170.2	171.0	31.14	7.72	24.31	1.63*
180.3	181.1	31.14	7.69	24.32	1.08*
190.3	191.2	31.14	7.68	24.32	1.62*
200.0	201.0	31.15	7.65	24.33	1.50*
210.1	211.1	31.15	7.69	24.33	1.56*
220.1	221.2	31.18	7.74	24.34	1.12*
230.3	231.4	31.18	7.76	24.34	1.01*
240.1	241.3	31.19	7.79	24.35	1.64*
250.2	251.4	31.20	7.81	24.35	.63*
260.0	261.3	31.20	7.81	24.35	1.20*
270.0	271.4	31.21	7.82	24.36	1.50*
280.1	281.5	31.22	7.83	24.36	1.26*
290.1	291.5	31.22	7.83	24.36	.98*
300.2	301.7	31.23	7.83	24.37	1.07*
310.1	311.6	31.23	7.83	24.37	.96*
320.3	321.8	31.23	7.83	24.37	.71*
330.1	331.8	31.23	7.83	24.37	.58*
340.3	342.0	31.24	7.84	24.37	.76*
360.0	361.8	31.24	7.84	24.37	.78*
380.3	382.2	31.24	7.84	24.38	.87*
400.1	402.1	31.24	7.85	24.38	.56*
420.1	422.2	31.25	7.85	24.38	.94*
440.1	442.2	31.25	7.85	24.38	.48*

MAX DEPTH 447.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 41.90  
 DATE 27/ 9/78  
 TIME (PST) 0345

TAPE CZ078/ 9- 23  
 LONG W125 43.50  
 PASS NO. 21  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	19.63	9.38	15.12	+
2.1	2.1	19.72	9.37	15.20	29.43
5.2	5.2	27.45	8.18	21.37	68.13
10.1	10.1	29.91	7.70	23.36	15.60*
15.2	15.3	30.18	7.87	23.54	12.42*
20.2	20.3	30.47	7.75	23.78	10.77
25.1	25.2	30.58	7.74	23.87	4.36*
30.3	30.4	30.61	7.80	23.89	4.89
35.0	35.2	30.68	7.80	23.94	4.73
40.1	40.3	30.71	7.80	23.97	5.35
45.0	45.2	30.73	7.81	23.98	6.00*
50.3	50.6	30.84	7.79	24.07	5.62
60.3	60.5	30.90	7.82	24.11	3.76*
70.0	70.3	30.95	7.79	24.16	3.90*
80.0	80.4	30.99	7.74	24.20	3.18*
90.3	90.8	31.02	7.74	24.22	2.44*
100.3	100.8	31.04	7.73	24.23	1.87
110.1	110.6	31.05	7.72	24.24	1.95*
120.0	120.6	31.06	7.69	24.25	1.88*
130.1	130.8	31.09	7.70	24.28	4.35*
140.1	140.7	31.12	7.74	24.29	1.94*
150.2	150.9	31.14	7.74	24.31	1.37*
160.3	161.1	31.14	7.75	24.31	1.64*
170.2	171.0	31.16	7.74	24.32	1.36*
180.0	180.9	31.15	7.71	24.32	1.31*
190.3	191.2	31.15	7.67	24.33	1.10*
200.2	201.1	31.17	7.72	24.34	1.07*
210.1	211.1	31.18	7.77	24.34	1.30*
220.3	221.3	31.19	7.78	24.34	1.40*
230.2	231.3	31.20	7.79	24.35	1.05*
240.2	241.3	31.20	7.80	24.35	.95*
250.2	251.4	31.20	7.80	24.35	.77*
260.2	261.4	31.21	7.81	24.36	1.28*
270.0	271.3	31.22	7.83	24.36	1.41*
280.2	281.5	31.23	7.83	24.37	.86*
290.1	291.5	31.23	7.84	24.37	.64*
300.3	301.7	31.23	7.84	24.37	.54*
310.1	311.6	31.23	7.84	24.37	.83*
320.2	321.8	31.23	7.84	24.37	.98*
330.3	331.9	31.23	7.84	24.37	.92*
340.0	341.7	31.24	7.85	24.37	1.03*
360.3	362.0	31.24	7.85	24.38	1.11*
380.0	381.9	31.25	7.85	24.38	.91*
400.2	402.2	31.25	7.86	24.38	.52*
420.1	422.2	31.25	7.86	24.38	+

MAX DEPTH 427.0



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 41.70  
 DATE 27/ 9/78  
 TIME (PST) 0312

TAPE CZ0/78/ 9- 24  
 LONG W125 46.60  
 PASS NO. 19  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.03	8.77	17.85	59.56
2.3	2.3	28.42	8.42	20.54	47.54
5.2	5.2	28.07	8.13	21.86	18.01
10.0	10.0	29.30	7.93	22.84	29.03
15.2	15.2	29.87	7.85	23.31	18.08
20.1	20.2	30.24	7.61	23.63	11.90
25.2	25.3	30.46	7.80	23.77	7.89
30.3	30.4	30.59	7.89	23.86	7.57
35.2	35.3	30.66	7.88	23.92	5.08*
40.2	40.4	30.70	7.86	23.95	5.82
45.1	45.3	30.77	7.86	24.00	4.80
50.3	50.5	30.79	7.88	24.02	3.19*
60.2	60.5	30.83	7.86	24.05	4.83*
70.2	70.6	30.91	7.84	24.12	3.84*
80.3	80.6	30.96	7.83	24.16	4.09*
90.0	90.4	31.00	7.81	24.19	2.65*
100.2	100.7	31.03	7.81	24.21	2.56*
110.3	110.8	31.04	7.78	24.23	3.86
120.1	120.7	31.07	7.70	24.26	2.67*
130.3	130.9	31.08	7.69	24.27	2.08*
140.1	140.8	31.10	7.72	24.29	1.56*
150.2	151.0	31.13	7.74	24.30	2.14*
160.1	160.9	31.14	7.76	24.31	1.67*
170.2	171.0	31.15	7.77	24.31	1.48*
180.3	181.2	31.15	7.74	24.32	1.41*
190.0	190.9	31.16	7.73	24.33	2.90
200.3	201.3	31.17	7.75	24.33	.89*
210.2	211.2	31.18	7.76	24.34	.94*
220.0	221.1	31.19	7.77	24.34	.86*
230.4	231.5	31.19	7.78	24.34	.57*
240.0	241.2	31.19	7.79	24.35	1.42*
250.2	251.4	31.20	7.80	24.35	1.12*
260.3	261.6	31.21	7.82	24.35	1.39*
270.1	271.4	31.21	7.82	24.36	1.47*
280.2	281.6	31.22	7.83	24.36	1.08*
290.2	291.6	31.23	7.84	24.36	.79*
300.4	301.8	31.23	7.84	24.37	.94*
310.2	311.7	31.23	7.84	24.37	.38*
320.1	321.7	31.23	7.85	24.37	.79*
330.2	331.8	31.24	7.85	24.37	.98*
340.2	341.9	31.24	7.85	24.37	.79*

MAX DEPTH 356.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 41.60  
 DATE 27/ 9/78  
 TIME (PST) 0245

TAPE CZ0/78/ 9- 25  
 LONG W125 49.30  
 PASS NO. 17  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	19.74	9.57	15.19	110.48
2.1	2.1	25.64	8.49	19.92	78.80
5.1	5.2	29.00	8.07	22.59	26.70
10.1	10.1	29.85	7.97	23.27	21.22
15.2	15.2	30.11	7.87	23.48	7.66
20.0	20.1	30.20	7.86	23.56	4.49
25.1	25.2	30.31	7.85	23.65	6.00
30.2	30.3	30.42	7.86	23.73	6.65*
35.2	35.3	30.47	7.87	23.77	6.43
40.2	40.4	30.57	7.87	23.85	8.63
45.2	45.4	30.69	7.90	23.94	7.25*
50.2	50.4	30.71	7.90	23.96	4.01*
60.3	60.5	30.80	7.87	24.02	4.73
70.1	70.4	30.85	7.85	24.07	4.17*
80.1	80.4	30.91	7.84	24.12	4.09*
90.0	90.5	30.95	7.78	24.16	4.46
100.1	100.6	30.99	7.80	24.19	3.33
110.4	110.9	31.04	7.78	24.23	2.78*
120.4	121.0	31.05	7.79	24.24	.88*
130.2	130.9	31.08	7.70	24.27	2.25*
140.3	141.0	31.10	7.73	24.29	2.33*
150.3	151.1	31.12	7.74	24.30	1.94*
160.4	161.2	31.14	7.76	24.31	2.00*
170.1	171.0	31.15	7.76	24.32	1.42*
180.2	181.1	31.16	7.76	24.32	1.37*
190.4	191.3	31.16	7.74	24.33	1.40*
200.2	201.2	31.17	7.76	24.33	1.21*
210.3	211.3	31.17	7.78	24.33	.96*
220.1	221.2	31.18	7.78	24.34	.87*
230.2	231.3	31.19	7.79	24.34	1.26*
240.3	241.5	31.19	7.79	24.35	1.11*
250.2	251.4	31.20	7.80	24.35	1.31*
260.3	261.6	31.20	7.80	24.35	.80*
270.1	271.4	31.21	7.82	24.36	1.66*
280.2	281.6	31.22	7.83	24.36	1.75*
290.1	291.5	31.23	7.83	24.37	.93*
300.2	301.7	31.24	7.84	24.37	.82*
310.1	311.7	31.23	7.85	24.37	.78*
320.1	321.7	31.24	7.85	24.37	.56*
330.2	331.8	31.23	7.86	24.37	.53*

MAX DEPTH 336.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 41.10  
 DATE 27/ 9/78  
 TIME (PST) 0206

TAPE CZ0/78/ 9- 26  
 LONG W125 51.90  
 PASS NO. 15  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.35	8.84	18.09	51.61
2.1	2.1	26.67	8.60	20.71	60.12
5.0	5.0	29.64	8.03	23.10	22.12
10.0	10.1	29.98	8.00	23.36	5.60*
15.1	15.1	30.04	7.97	23.42	9.20*
20.1	20.2	30.28	7.97	23.61	10.65
25.2	25.3	30.51	7.94	23.79	9.59*
30.0	30.1	30.53	7.95	23.81	4.82
35.2	35.4	30.59	7.94	23.86	6.76
40.3	40.5	30.63	7.93	23.89	4.30*
45.0	45.2	30.68	7.92	23.92	4.67
50.2	50.4	30.70	7.91	23.94	5.21*
60.3	60.6	30.80	7.88	24.02	5.04*
70.2	70.5	30.87	7.84	24.09	4.85
80.2	80.6	30.93	7.82	24.14	2.92*
90.2	90.6	30.95	7.81	24.16	2.79*
100.4	100.8	30.98	7.79	24.18	2.80*
110.3	110.8	31.00	7.80	24.19	3.00
120.3	120.8	31.05	7.79	24.24	3.08*
130.3	130.9	31.06	7.71	24.25	1.81*
140.3	141.0	31.07	7.70	24.26	2.64*
150.0	150.8	31.08	7.71	24.27	1.25*
160.1	160.9	31.12	7.74	24.29	2.78*
170.4	171.2	31.13	7.77	24.30	1.42*
180.1	181.0	31.14	7.77	24.31	1.76*
190.3	191.2	31.15	7.77	24.31	1.31*
200.2	201.2	31.16	7.77	24.32	1.50*
210.3	211.3	31.17	7.76	24.33	1.73*
220.3	221.3	31.18	7.77	24.33	1.05*
230.0	231.1	31.18	7.78	24.34	.77*
240.2	241.4	31.18	7.78	24.34	1.44*
250.1	251.3	31.19	7.79	24.34	1.32*
260.3	261.5	31.20	7.81	24.35	1.34*
270.1	271.4	31.20	7.81	24.35	1.21*
280.3	281.7	31.21	7.83	24.35	1.28*
290.3	291.7	31.22	7.85	24.36	1.67*
300.2	301.7	31.22	7.86	24.36	1.81*
310.3	311.8	31.23	7.87	24.37	.78*
320.2	321.8	31.24	7.87	24.37	+

MAX DEPTH 323.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 40.70  
 DATE 27/ 9/78  
 TIME (PST) 0125

TAPE CZ0/78/ 9- 27  
 LONG W125 54.40  
 PASS NO. 13  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	21.72	9.27	16.77	68.94
2.1	2.1	23.91	8.88	18.52	48.45
5.1	5.1	26.00	8.53	20.19	54.84
10.2	10.2	30.01	8.10	23.38	14.71
15.0	15.1	30.18	8.06	23.52	11.07
20.1	20.2	30.39	7.98	23.69	10.67*
25.1	25.2	30.50	7.97	23.78	8.60*
30.2	30.3	30.63	7.93	23.89	7.50
35.3	35.4	30.72	7.90	23.96	5.77
40.2	40.4	30.77	7.88	24.00	5.44*
45.1	45.3	30.79	7.87	24.02	3.88
50.1	50.3	30.84	7.86	24.06	4.23
60.2	60.5	30.90	7.86	24.10	2.96*
70.1	70.5	30.92	7.86	24.12	4.26
80.0	80.4	31.00	7.87	24.18	2.05*
90.2	90.6	31.00	7.87	24.18	1.14*
100.1	100.6	31.02	7.86	24.20	3.27*
110.2	110.7	31.05	7.85	24.23	2.70*
120.2	120.8	31.06	7.83	24.24	1.46*
130.2	130.8	31.08	7.82	24.25	2.29*
140.2	140.9	31.09	7.77	24.27	2.57*
150.1	150.8	31.10	7.77	24.28	1.49*
160.1	160.9	31.12	7.77	24.29	2.31*
170.2	171.0	31.14	7.76	24.31	2.17*
180.1	181.0	31.15	7.76	24.32	1.45*
190.0	191.0	31.16	7.77	24.32	1.79*
200.3	201.2	31.17	7.77	24.33	1.25*
210.2	211.2	31.18	7.78	24.33	1.43*
220.2	221.2	31.18	7.79	24.34	.92*
230.2	231.3	31.18	7.79	24.34	.69*
240.3	241.4	31.19	7.80	24.34	.94*
250.2	251.4	31.20	7.82	24.35	1.00*
260.0	261.3	31.20	7.83	24.34	1.16*
270.2	271.5	31.21	7.84	24.35	1.22*
280.1	281.4	31.22	7.85	24.36	1.31*
290.1	291.5	31.22	7.85	24.36	.92*
300.0	301.5	31.23	7.85	24.36	1.06*
310.0	311.5	31.23	7.86	24.36	.61*
320.3	321.8	31.23	7.86	24.36	+
330.3	331.9	31.23	7.86	24.37	+
340.0	341.7	31.24	7.86	24.37	.45*
360.2	362.0	31.24	7.87	24.37	+
380.2	382.1	31.25	7.88	24.38	1.56*
400.2	402.2	31.25	7.88	24.37	.80*

MAX DEPTH 408.8



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 27/ 9/78  
 TIME (PST) 0045

TAPE CZ0/78/ 9- 28  
 LONG W125 57.20  
 PASS NO. 11  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	22.47	9.07	17.37	55.71
2.1	2.1	25.08	8.94	19.42	35.17
5.0	5.0	26.70	8.61	20.73	71.97
10.0	10.0	29.78	8.10	23.20	11.21
15.0	15.1	30.10	8.04	23.45	9.94
20.2	20.3	30.22	8.03	23.55	9.92
25.1	25.2	30.42	7.97	23.71	10.28
30.2	30.3	30.57	7.94	23.84	7.83
35.0	35.2	30.69	7.92	23.93	5.76
40.1	40.3	30.76	7.90	23.99	5.65*
45.4	45.6	30.85	7.89	24.06	5.42
50.1	50.3	30.88	7.88	24.09	4.23
60.4	60.7	30.96	7.88	24.15	4.70*
70.1	70.4	31.07	7.87	24.24	4.61*
80.3	80.7	31.12	7.85	24.28	2.93*
90.3	90.7	31.15	7.82	24.31	1.99*
100.2	100.6	31.15	7.82	24.31	1.02*
110.1	110.6	31.16	7.81	24.32	1.53*
120.1	120.7	31.17	7.80	24.33	1.66*
130.3	130.9	31.18	7.80	24.33	1.40*
140.2	140.9	31.18	7.81	24.33	1.23*
150.1	150.9	31.18	7.81	24.34	.88*
160.2	161.0	31.19	7.81	24.34	.73*
170.1	170.9	31.19	7.81	24.34	1.06*
180.1	181.0	31.19	7.81	24.34	+
190.1	191.1	31.19	7.82	24.34	.75*
200.2	201.2	31.19	7.82	24.34	.63*
210.2	211.2	31.20	7.82	24.34	+

MAX DEPTH 211.2



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 27/ 9/78  
 TIME (PST) 0016

TAPE CZ0/78/ 9- 29  
 LONG W125 59.50  
 PASS NO. 9  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	22.42	9.17	17.32	31.95
2.1	2.1	23.65	8.92	18.31	53.51
5.0	5.0	28.69	8.31	22.32	51.37
10.0	10.1	30.13	8.04	23.48	22.20
15.1	15.2	30.50	7.97	23.78	5.30
20.1	20.2	30.63	7.93	23.88	5.43*
25.1	25.2	30.67	7.92	23.92	4.74*
30.1	30.2	30.72	7.91	23.96	7.23
35.2	35.4	30.80	7.90	24.02	7.53
40.1	40.3	30.84	7.89	24.05	5.39*
45.1	45.3	30.89	7.88	24.10	4.75*
50.0	50.3	30.91	7.87	24.11	4.58*
60.1	60.4	31.09	7.89	24.25	5.23

MAX DEPTH 69.0

CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 39.90  
 DATE 26/ 9/78  
 TIME (PST) 2331

TAPE CZ0/78/ 9- 30  
 LONG W126 4.20  
 PASS NO. 7  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	22.38	9.49	17.25	61.12
2.2	2.2	23.80	9.05	18.41	29.40
5.1	5.1	25.75	8.79	19.96	68.01
10.1	10.1	29.75	8.53	23.11	11.21
15.1	15.2	30.09	8.42	23.40	14.93
20.1	20.2	30.45	8.35	23.68	14.27*
25.1	25.2	30.62	8.18	23.85	8.88
30.1	30.3	30.78	8.13	23.97	7.02
35.0	35.2	30.85	8.00	24.04	4.73
40.2	40.4	30.91	7.87	24.12	8.96
45.2	45.4	30.99	7.88	24.17	5.58*
50.2	50.5	31.08	8.12	24.21	5.59*
60.2	60.4	31.26	8.22	24.33	4.79
70.2	70.5	31.34	8.23	24.40	3.79*
80.1	80.5	31.38	8.19	24.43	3.67
90.1	90.6	31.40	8.07	24.47	3.68*
100.1	100.6	31.43	8.05	24.50	2.22*
110.2	110.7	31.47	8.05	24.52	4.53*
120.0	120.6	31.55	8.11	24.58	7.22*
130.0	130.7	31.57	8.09	24.59	3.78
140.2	140.9	31.59	8.12	24.61	2.54*
150.2	151.0	31.61	8.08	24.63	2.68*
160.2	161.1	31.65	8.04	24.66	3.16*
170.1	171.0	31.66	8.04	24.67	1.84*
180.2	181.2	31.67	8.02	24.69	1.45*

MAX DEPTH 186.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 39.20  
 DATE 26/ 9/78  
 TIME (PST) 2227

TAPE CZ0/78/ 9- 31  
 LONG W126 12.50  
 PASS NO. 5  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.07	8.95	18.63	20.75
2.1	2.1	24.06	8.96	18.62	12.12*
5.1	5.1	25.49	8.91	19.74	30.61
10.1	10.1	26.50	8.64	22.12	40.47
15.1	15.2	30.22	8.46	23.49	9.97
20.1	20.2	30.48	8.42	23.70	15.07
25.3	25.4	30.78	8.34	23.94	10.85
30.1	30.3	30.83	8.32	23.99	4.26*
35.3	35.4	30.85	8.36	24.00	4.98
40.1	40.3	30.92	8.38	24.05	8.05
45.2	45.4	31.01	8.33	24.12	6.60
50.0	50.3	31.06	8.38	24.16	6.37*
60.2	60.5	31.16	8.23	24.26	3.83*
70.3	70.6	31.24	8.29	24.31	4.07*
80.0	80.4	31.37	8.41	24.40	2.84*
90.2	90.6	31.42	8.34	24.45	7.58
100.2	100.7	31.49	8.33	24.50	3.92
110.2	110.7	31.54	8.31	24.54	3.95*
120.0	120.6	31.58	8.34	24.57	3.92*
130.0	130.7	31.60	8.29	24.59	3.00*
140.1	140.8	31.61	8.24	24.61	1.84*
150.1	150.9	31.62	8.23	24.62	1.58*
160.1	160.9	31.65	8.30	24.63	4.06*
170.2	171.1	31.64	8.21	24.63	2.55*
180.0	181.0	31.66	8.07	24.67	2.60*
190.2	191.2	31.67	8.07	24.68	1.88*
200.2	201.3	31.68	8.05	24.69	1.23*
210.0	211.1	31.69	8.05	24.70	.25*

MAX DEPTH 210.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLLT 1978  
 LAT N50 38.50  
 DATE 26/ 9/78  
 TIME (PST) 2142

TAPE CZ0/78/ 9- 32  
 LONG W126 17.30  
 PASS NO. 3  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.51	9.03	18.97	14.51
2.1	2.1	24.34	9.05	18.83	10.79*
5.1	5.1	24.65	8.98	19.08	27.52
10.2	10.2	26.49	8.82	22.09	40.53
15.1	15.1	30.15	8.63	23.41	14.76
20.2	20.3	30.53	8.46	23.73	10.34
25.3	25.4	30.66	8.45	23.84	9.72
30.1	30.3	30.74	8.42	23.91	5.49
35.3	35.4	30.81	8.43	23.95	7.28
40.1	40.2	30.87	8.45	24.00	5.56*
45.2	45.4	30.94	8.34	24.07	8.26
50.1	50.3	31.10	8.30	24.20	11.12*
60.1	60.4	31.18	8.24	24.27	4.36*
70.1	70.4	31.23	8.23	24.31	4.10*
80.1	80.5	31.29	8.24	24.36	5.18
90.2	90.6	31.42	8.37	24.44	4.71*
100.2	100.7	31.46	8.37	24.47	4.34*
110.2	110.8	31.56	8.39	24.55	5.08*
120.2	120.8	31.62	8.41	24.59	2.44*
130.1	130.8	31.64	8.39	24.61	5.99*
140.3	141.0	31.65	8.42	24.61	1.80*
150.1	150.9	31.66	8.37	24.63	1.83*
160.1	161.0	31.69	8.39	24.64	1.01*
170.1	171.0	31.69	8.37	24.65	1.31*
180.1	181.0	31.69	8.35	24.65	.83*
190.2	191.2	31.69	8.34	24.66	.99*
200.1	201.1	31.69	8.30	24.66	1.66*
210.3	211.4	31.70	8.22	24.68	3.99
220.2	221.3	31.70	8.11	24.70	.86*
230.2	231.4	31.72	8.10	24.71	2.50*
240.1	241.3	31.73	8.09	24.72	+

MAX DEPTH 240.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 18 KNIGHT INLET 1978  
 LAT N50 38.10  
 DATE 26/ 9/78  
 TIME (PST) 2042

TAPE CZ0/78/ 9- 33  
 LONG W126 25.20  
 PASS NO. 1  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.94	9.50	18.46	+
2.0	2.0	23.94	9.47	18.46	4.41*
5.0	5.0	24.03	9.26	18.56	10.99
10.1	10.0	24.77	9.04	19.16	24.79
15.2	15.2	27.73	8.91	21.49	43.72
20.0	20.1	30.14	8.70	23.40	16.61
25.1	25.2	30.59	8.57	23.76	14.56
30.0	30.2	30.77	8.51	23.91	9.15
35.0	35.2	30.89	8.48	24.01	4.50
40.1	40.3	30.91	8.47	24.03	7.03*
45.2	45.4	31.07	8.40	24.16	7.64
50.2	50.4	31.13	8.37	24.22	5.24
60.1	60.4	31.23	8.32	24.30	5.50*
70.2	70.6	31.34	8.26	24.39	5.44
80.2	80.6	31.40	8.22	24.45	4.88*
90.0	90.5	31.47	8.21	24.51	2.77*
100.1	100.7	31.51	8.22	24.53	2.76*
110.2	110.7	31.55	8.22	24.56	2.64*
120.1	120.7	31.57	8.20	24.58	1.32*
130.1	130.8	31.58	8.20	24.59	1.86*
140.2	140.9	31.59	8.17	24.60	1.76*
150.2	151.0	31.60	8.17	24.61	1.36*
160.1	160.9	31.62	8.15	24.63	2.65*
170.0	170.9	31.63	8.14	24.64	1.93*
180.1	181.0	31.64	8.14	24.64	1.34*
190.2	191.1	31.64	8.14	24.65	1.23*
200.1	201.1	31.65	8.14	24.65	.89*
210.1	211.2	31.65	8.14	24.65	.97*
220.3	221.4	31.65	8.14	24.66	1.27*
230.1	231.3	31.66	8.13	24.66	1.35*
240.1	241.3	31.66	8.13	24.66	+

MAX DEPTH 240.3

CRUISE NO. 19





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N51 2.30  
 DATE 18/11/78  
 TIME (PST) 0608

TAPE CZ0/78/ 9- 82  
 LONG W125 33.80  
 PASS NO. 18  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.4	.4	30.20	7.45	23.62	56.68*
2.3	2.3	30.19	7.46	23.61	41.83*
5.1	5.1	30.18	7.47	23.60	19.54*
10.3	10.3	30.26	7.48	23.66	6.92*
15.0	15.1	30.28	7.48	23.68	11.33*
20.1	20.2	30.79	7.26	24.11	10.85
25.4	25.5	31.00	7.02	24.30	10.19
30.1	30.2	31.11	6.91	24.40	9.02
35.2	35.4	31.24	6.80	24.52	7.76
40.3	40.5	31.31	6.76	24.58	6.17*
45.3	45.5	31.37	6.72	24.63	5.72*
50.3	50.6	31.44	6.70	24.69	5.55*
60.2	60.5	31.49	6.68	24.73	2.90*
70.2	70.6	31.54	6.68	24.77	4.49*
80.2	80.6	31.61	6.71	24.82	3.94*
90.2	90.7	31.68	6.75	24.87	4.39
100.1	100.6	31.73	6.85	24.90	3.62*
110.4	111.0	31.84	7.04	24.96	3.92
120.2	120.9	31.88	7.13	24.98	3.78*
130.3	131.0	31.92	7.20	25.00	2.82*
140.0	140.8	31.95	7.26	25.02	4.62
150.1	150.9	31.99	7.30	25.04	5.17
160.1	161.0	32.03	7.36	25.06	3.21*
170.1	171.0	32.08	7.42	25.10	2.25*
180.1	181.1	32.09	7.45	25.10	
190.0	191.1	32.14	7.51	25.13	

MAX DEPTH 190.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 58.90  
 DATE 18/11/78  
 TIME (PST) 0530

TAPE CZ0/78/ 9- 83  
 LONG W125 33.20  
 PASS NO. 17  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.9	.9	25.36	6.94	19.91	+
2.1	2.1	25.43	6.96	19.95	27.12
5.2	5.2	26.74	7.15	20.95	45.13
10.2	10.2	29.44	7.60	23.00	31.53
15.0	15.1	30.15	7.48	23.58	9.90
20.2	20.3	30.53	7.61	23.86	15.84
25.1	25.2	30.85	7.27	24.15	10.23
30.3	30.4	31.10	7.04	24.38	10.15
35.1	35.3	31.15	6.99	24.42	6.31
40.2	40.4	31.26	6.92	24.52	6.69
45.1	45.3	31.43	6.90	24.66	5.89*
50.2	50.5	31.43	6.98	24.65	5.80
60.1	60.4	31.58	7.08	24.75	5.57*
70.0	70.4	31.62	7.07	24.78	8.16
80.2	80.6	31.71	6.89	24.88	4.28*
90.0	90.5	31.72	6.88	24.89	4.47*
100.2	100.7	31.77	6.96	24.91	3.38*
110.3	110.9	31.83	7.04	24.95	3.33*
120.2	120.9	31.89	7.12	24.99	4.38
130.1	130.8	31.93	7.19	25.01	2.61*
140.2	141.0	31.97	7.26	25.03	3.23*
150.1	150.9	32.03	7.33	25.07	4.01
160.1	161.0	32.06	7.37	25.09	3.57
170.2	171.2	32.10	7.43	25.11	2.87*
180.2	181.2	32.14	7.47	25.14	2.56*
190.1	191.2	32.18	7.51	25.16	3.95*

MAX DEPTH 198.6

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 19 KNIGHT INLET 1978

LAT N50 54.30

DATE 18/11/78

TIME (PST) 0436

TAPE CZ0/78/ 9- 84

LONG W125 32.80

PASS NO. 16

STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.5	.5	24.08	6.61	18.93	176.12
2.2	2.2	24.87	6.83	19.52	72.53
5.2	5.2	25.42	7.04	19.93	21.16*
10.2	10.2	25.36	6.85	19.90	31.48
15.0	15.1	30.09	7.97	23.46	24.22
20.2	20.3	30.64	7.66	23.93	18.28
25.2	25.3	30.83	7.45	24.11	+
30.1	30.2	31.17	7.32	24.40	12.30
35.1	35.3	31.37	7.27	24.56	8.43*
40.2	40.4	31.45	7.29	24.62	6.03
45.3	45.5	31.54	7.41	24.67	6.88
50.0	50.3	31.56	7.19	24.72	8.50
60.1	60.4	31.70	7.53	24.78	5.27
70.2	70.6	31.78	7.59	24.84	2.81*
80.1	80.5	31.77	7.25	24.88	3.17
90.1	90.6	31.83	7.35	24.91	4.03*
100.2	100.7	31.92	7.58	24.95	1.82*
110.3	110.9	31.93	7.53	24.96	3.93*
120.0	120.7	31.93	7.45	24.97	3.29*
130.2	130.9	31.97	7.38	25.01	5.59*
140.0	140.8	31.99	7.31	25.04	4.03
150.2	151.0	32.04	7.36	25.07	2.97*
160.1	161.0	32.08	7.41	25.10	2.96*
170.0	171.0	32.13	7.48	25.13	2.85*
180.2	181.2	32.17	7.54	25.15	2.70*
190.0	191.1	32.19	7.57	25.16	3.95*

MAX DEPTH 198.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 52.40  
 DATE 18/11/78  
 TIME (PST) 0350

TAPE CZ0/78/ 9- 85  
 LONG W125 38.50  
 PASS NO. 15

STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	R-V
.4	.4	23.94	6.59	18.82	45.17
2.0	2.0	23.94	6.60	18.82	13.07*
5.1	5.1	26.15	7.16	20.49	34.11
10.2	10.2	29.60	7.92	23.09	23.06
15.0	15.1	30.39	8.07	23.68	11.15
20.2	20.3	30.91	7.91	24.11	16.00
25.2	25.3	31.11	7.79	24.28	10.01*
30.3	30.4	31.27	7.78	24.41	8.17
35.2	35.4	31.33	7.66	24.47	6.69*
40.1	40.3	31.39	7.38	24.56	7.13
45.2	45.4	31.49	7.38	24.64	7.45
50.1	50.4	31.59	7.57	24.69	6.84*
60.1	60.4	31.73	7.79	24.77	6.63*
70.1	70.5	31.83	7.92	24.83	4.02*
80.3	80.7	31.87	7.84	24.87	5.20
90.0	90.5	31.90	7.85	24.89	3.63*
100.2	100.7	31.92	7.71	24.93	2.31*
110.1	110.7	31.91	7.50	24.95	3.53*
120.1	120.8	31.96	7.48	24.99	2.99*
130.2	130.9	31.97	7.35	25.02	6.05*
140.2	141.0	31.99	7.36	25.03	5.78
150.1	150.9	32.05	7.39	25.08	3.66*
160.0	160.9	32.09	7.44	25.10	2.44*
170.1	171.1	32.11	7.47	25.11	2.46*
180.5	181.5	32.15	7.52	25.14	2.56*

MAX DEPTH 188.7



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 47.90  
 DATE 18/11/78  
 TIME (PST) 0243

TAPE CZ0/78/ 9- 86  
 LONG W125 37.00  
 PASS NO. 14  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.8	.8	21.82	5.60	17.26	61.75
2.1	2.1	21.28	5.45	16.84	17.62*
5.0	5.0	24.51	6.35	19.29	46.03
10.2	10.2	29.26	7.70	22.85	30.30
15.0	15.1	30.12	7.91	23.49	15.03
20.2	20.3	30.46	8.01	23.75	14.17
25.3	25.4	30.70	8.07	23.93	6.81
30.1	30.2	31.03	8.10	24.18	10.41
35.0	35.2	31.18	8.05	24.30	14.66
40.1	40.3	31.39	8.10	24.46	7.20
45.1	45.3	31.50	8.13	24.54	6.70*
50.1	50.4	31.62	8.15	24.63	6.04*
60.1	60.4	31.72	8.15	24.71	5.53
70.0	70.4	31.81	8.15	24.78	4.26*
80.1	80.5	31.85	8.12	24.82	3.23*
90.2	90.7	31.91	8.09	24.87	3.28*
100.1	100.6	31.96	8.04	24.91	3.85
110.2	110.8	31.95	7.93	24.92	2.57*
120.0	120.7	32.01	7.85	24.98	5.06
130.1	130.8	31.99	7.75	24.98	.99*
140.0	140.8	32.02	7.68	25.01	3.20*
150.2	151.0	32.03	7.54	25.04	2.98*
160.0	160.9	32.04	7.47	25.06	2.53*
170.1	171.0	32.07	7.46	25.08	2.45
180.4	181.4	32.11	7.54	25.10	3.09*
190.0	191.1	32.13	7.56	25.11	+

MAX DEPTH 196.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 45.10  
 DATE 18/11/78  
 TIME (PST) 0204

TAPE CZ0/78/ 9- 87  
 LONG W125 41.00  
 PASS NO. 13  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.7	.7	23.18	5.87	18.30	+
2.1	2.1	23.19	5.89	18.30	20.31
5.2	5.2	26.14	6.68	20.54	46.29
10.2	10.2	29.18	7.62	22.80	36.08
15.0	15.1	30.14	7.90	23.51	5.48
20.1	20.2	30.34	7.95	23.66	18.65
25.1	25.2	30.94	8.10	24.11	11.02
30.1	30.2	31.08	8.13	24.21	8.02*
35.1	35.3	31.22	8.15	24.32	9.03*
40.1	40.3	31.38	8.18	24.44	11.94
45.2	45.4	31.59	8.19	24.60	10.42
50.0	50.3	31.67	8.20	24.66	6.80
60.2	60.5	31.79	8.19	24.76	2.75*
70.2	70.6	31.81	8.17	24.78	4.01*
80.1	80.5	31.90	8.12	24.86	3.57*
90.1	90.6	31.92	8.11	24.87	2.67
100.1	100.6	31.94	8.12	24.89	5.27*
110.3	110.9	32.00	8.00	24.95	3.70*
120.1	120.8	32.02	7.87	24.99	

MAX DEPTH 124.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 41.90  
 DATE 18/11/78  
 TIME (PST) 0117

TAPE CZ0/78/ 9- 88  
 LONG W125 43.50  
 PASS NO. 12  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.5	.5	27.34	7.10	21.43	48.60
2.2	2.2	25.11	6.45	19.75	11.77*
5.1	5.1	27.79	7.14	21.77	29.99
10.1	10.1	30.00	7.86	23.41	11.39
15.1	15.2	30.32	7.94	23.65	13.78
20.0	20.1	30.71	8.05	23.94	12.88
25.1	25.2	31.08	8.13	24.21	18.16*
30.2	30.3	31.38	8.19	24.44	10.91
35.0	35.2	31.51	8.21	24.54	7.57
40.1	40.3	31.65	8.23	24.64	7.68
45.1	45.3	31.72	8.23	24.70	6.39
50.0	50.3	31.80	8.23	24.76	4.45*
60.1	60.4	31.83	8.23	24.78	3.65*
70.0	70.4	31.87	8.22	24.82	3.52*
80.1	80.5	31.91	8.17	24.86	2.84*
90.0	90.5	31.94	8.13	24.88	2.63*
100.2	100.7	31.95	8.09	24.90	2.25*
110.0	110.6	31.98	8.07	24.92	5.09*
120.1	120.8	32.00	8.04	24.94	4.40
130.2	130.9	32.05	7.97	25.00	4.06*
140.0	140.8	32.06	7.89	25.01	2.93*
150.2	151.0	32.12	7.83	25.07	3.98*
160.0	160.9	32.12	7.82	25.07	2.52*
170.1	171.1	32.15	7.80	25.10	2.96*
180.2	181.2	32.17	7.79	25.11	2.53*
190.1	191.2	32.19	7.79	25.13	3.95*

MAX DEPTH 199.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 41.70  
 DATE 18/11/78  
 TIME (PST) 0041

TAPE CZ0/78/ 9- 89  
 LONG W125 46.60  
 PASS NO. 11  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.9	.9	26.91	6.91	21.11	28.34
2.1	2.1	27.98	7.17	21.92	37.56
5.1	5.1	29.42	7.67	22.98	18.61
10.1	10.1	30.21	7.91	23.56	18.36
15.2	15.3	30.89	8.10	24.07	10.49
20.1	20.2	31.19	8.17	24.29	10.19
25.1	25.2	31.27	8.20	24.35	10.13
30.2	30.3	31.57	8.23	24.58	12.96
35.0	35.2	31.67	8.24	24.66	3.98*
40.3	40.5	31.71	8.23	24.69	3.41*
45.3	45.5	31.71	8.24	24.69	4.64*
50.0	50.3	31.81	8.23	24.77	5.60*
60.2	60.5	31.88	8.21	24.83	4.46*
70.3	70.7	31.91	8.19	24.85	2.68
80.2	80.6	31.94	8.16	24.88	4.07*
90.0	90.5	31.96	8.10	24.90	4.16
100.2	100.7	32.00	8.04	24.95	7.67
110.2	110.8	32.01	7.99	24.96	2.40*
120.1	120.8	32.04	7.97	24.99	1.96*
130.1	130.8	32.05	7.97	24.99	1.12*
140.0	140.8	32.07	7.98	25.01	3.48*
150.2	151.0	32.08	7.97	25.02	2.89*
160.0	160.9	32.13	7.91	25.07	2.55*
170.1	171.0	32.15	7.83	25.09	2.34*
180.1	181.1	32.17	7.81	25.11	2.83*
190.1	191.2	32.20	7.77	25.14	+

MAX DEPTH 198.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 41.60  
 DATE 18/11/78  
 TIME (PST) 0008

TAPE CZ0/78/ 9- 90  
 LONG W125 49.30  
 PASS NO. 10  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.4	.4	26.64	6.89	20.90	+
2.1	2.1	26.91	6.95	21.11	32.89
5.1	5.1	28.65	7.42	22.41	43.86
10.1	10.1	30.33	7.93	23.66	7.03
15.2	15.3	30.54	8.00	23.81	15.83
20.0	20.1	31.23	8.18	24.32	8.23
25.1	25.2	31.42	8.22	24.47	10.71
30.0	30.2	31.65	8.26	24.64	6.66
35.0	35.2	31.75	8.26	24.72	7.03
40.2	40.4	31.80	8.28	24.75	4.10*
45.1	45.3	31.82	8.27	24.77	4.23*
50.2	50.5	31.88	8.25	24.82	5.17*
60.2	60.5	31.94	8.23	24.87	4.85
70.0	70.4	31.97	8.21	24.90	3.42
80.2	80.6	32.05	8.14	24.97	6.05*
90.1	90.6	32.07	8.19	24.98	2.38*
100.1	100.6	32.10	8.17	25.00	2.36*
110.2	110.8	32.11	8.13	25.02	3.00*
120.0	120.7	32.16	8.05	25.07	2.54*
130.2	130.9	32.15	7.95	25.08	3.64*
140.2	141.0	32.67	7.90	25.49	3.69*
150.2	151.0	32.20	7.90	25.12	2.08*
160.1	161.0	32.23	7.88	25.15	2.11*
170.0	171.0	32.22	7.84	25.15	1.52*
180.1	181.1	32.23	7.84	25.15	+
190.2	191.3	32.25	7.84	25.17	3.95*

MAX DEPTH 194.0



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 41.10  
 DATE 17/11/78  
 TIME (PST) 2334

TAPE CZ0/78/ 9- 91  
 LONG W125 51.90  
 PASS NO. 9  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.5	.5	28.46	7.21	22.29	19.51
2.1	2.1	28.46	7.23	22.29	6.91*
5.1	5.1	28.59	7.27	22.38	17.49
10.1	10.1	30.32	7.95	23.65	15.48
15.1	15.2	30.76	8.09	23.97	10.68
20.0	20.1	31.18	8.18	24.28	19.31
25.1	25.2	31.55	8.25	24.56	5.44
30.2	30.3	31.61	8.26	24.61	6.04*
35.0	35.2	31.67	8.27	24.65	6.06
40.2	40.4	31.76	8.28	24.72	6.20
45.2	45.4	31.81	8.28	24.76	4.07
50.0	50.3	31.89	8.26	24.83	4.29*
60.1	60.4	31.95	8.26	24.87	4.29*
70.0	70.4	32.03	8.27	24.94	4.57*
80.1	80.5	32.05	8.23	24.96	2.22*
90.1	90.6	32.08	8.18	24.99	2.47*
100.1	100.6	32.11	8.22	25.01	6.74*
110.2	110.8	32.12	8.03	25.04	4.54
120.1	120.8	32.14	8.03	25.06	1.88*
130.1	130.8	32.16	8.01	25.08	3.95
140.0	140.8	32.20	7.88	25.13	2.50*
150.1	150.9	32.22	7.85	25.14	1.69*
160.1	161.0	32.22	7.85	25.15	1.52*
170.0	171.0	32.24	7.84	25.16	2.31*
180.1	181.1	32.24	7.84	25.16	1.07*
190.1	191.2	32.24	7.84	25.16	3.95*

MAX DEPTH 195.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 40.70  
 DATE 17/11/78  
 TIME (PST) 2301

TAPE CZ0/78/ 9- 92  
 LONG W125 54.40  
 PASS NO. 8  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.5	.5	27.98	7.12	21.92	31.58
2.1	2.1	27.91	7.12	21.87	9.92*
5.1	5.1	29.36	7.63	22.94	25.17
10.1	10.1	30.38	7.95	23.69	18.76
15.0	15.1	31.00	8.13	24.15	5.32
20.0	20.1	31.26	8.21	24.34	10.39
25.2	25.3	31.36	8.22	24.42	8.57*
30.1	30.2	31.51	8.25	24.53	7.44*
35.1	35.3	31.58	8.26	24.59	7.05*
40.1	40.3	31.71	8.28	24.68	6.85*
45.1	45.3	31.75	8.28	24.71	6.77*
50.0	50.3	31.86	8.29	24.80	5.40*
60.1	60.4	31.94	8.29	24.86	2.73*
70.1	70.5	32.00	8.28	24.91	4.39
80.1	80.5	32.03	8.26	24.94	3.35*
90.1	90.6	32.07	8.23	24.97	2.56*
100.1	100.6	32.09	8.18	25.00	3.11*
110.1	110.7	32.11	8.15	25.02	3.05
120.0	120.7	32.12	8.04	25.04	3.29*
130.1	130.8	32.13	8.01	25.05	3.84*
140.0	140.8	32.17	7.92	25.10	4.58*
150.1	150.9	32.21	7.89	25.13	3.72*
160.1	161.0	32.23	7.92	25.14	+
170.0	171.0	32.24	7.92	25.15	2.04*
180.1	181.1	32.25	7.93	25.16	+
190.1	191.2	32.27	7.90	25.18	+

MAX DEPTH 196.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 17/11/78  
 TIME (PST) 2228

TAPE CZ0/78/ 9- 93  
 LONG W125 57.20  
 PASS NO. 7  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-v
.3	.3	26.31	6.48	20.69	2.80
2.1	2.1	26.77	6.53	21.05	22.63
5.1	5.1	27.82	7.05	21.81	16.13
10.1	10.1	28.48	7.28	22.29	15.98
15.1	15.2	29.72	7.67	23.21	29.00
20.0	20.1	30.59	8.00	23.85	18.83
25.2	25.3	30.83	8.07	24.03	7.66
30.2	30.3	30.99	8.12	24.14	9.52*
35.0	35.2	31.15	8.16	24.26	8.56
40.1	40.3	31.33	8.19	24.40	6.40
45.1	45.3	31.44	8.24	24.48	7.78*
50.1	50.4	31.63	8.26	24.62	6.95*
60.2	60.5	31.67	8.26	24.65	3.33
70.1	70.5	31.78	8.27	24.74	5.51*
80.2	80.6	31.87	8.29	24.81	3.40*
90.1	90.6	31.89	8.29	24.82	3.03*
100.1	100.6	31.95	8.29	24.87	4.30*
110.0	110.6	32.02	8.28	24.93	2.33*
120.1	120.7	32.02	8.29	24.92	+

MAX DEPTH 120.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 17/11/78  
 TIME (PST) 2139

TAPE CZ0/78/ 9- 94  
 LONG W125 59.50  
 PASS NO. 5  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.3	.3	27.99	7.17	21.92	14.80
2.1	2.1	28.11	7.20	22.02	11.50
5.2	5.2	28.26	7.26	22.13	9.89
10.1	10.1	29.64	7.70	23.15	12.85
15.1	15.2	29.93	7.79	23.36	17.90
20.1	20.2	30.53	8.00	23.80	7.16
25.2	25.3	30.87	8.07	24.06	17.45
30.1	30.2	31.01	8.12	24.16	7.31
35.1	35.3	31.20	8.16	24.30	15.82
40.1	40.3	31.45	8.22	24.49	8.08
45.1	45.3	31.66	8.25	24.65	6.61
50.1	50.4	31.71	8.27	24.69	6.29
60.2	60.5	31.82	8.28	24.77	6.44*

MAX DEPTH 67.3

CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 39.90  
 DATE 17/11/78  
 TIME (PST) 2059

TAPE CZ0/78/ 9- 95  
 LONG W126 4.20  
 PASS NO. 4  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.6	.6	28.46	7.02	22.31	16.28
2.1	2.1	28.46	7.03	22.31	5.31*
5.1	5.1	28.78	7.30	22.53	13.48
10.1	10.1	29.32	7.55	22.92	10.68
15.0	15.1	29.64	7.69	23.15	15.09
20.0	20.1	30.55	8.07	23.81	15.05*
25.1	25.2	30.60	8.10	23.84	6.85*
30.1	30.2	30.83	8.12	24.02	18.73
35.0	35.2	31.35	8.20	24.41	8.91*
40.0	40.2	31.40	8.21	24.45	5.80
45.2	45.4	31.60	8.23	24.60	6.87
50.1	50.4	31.65	8.24	24.64	4.50*
60.1	60.4	31.74	8.25	24.71	5.54
70.0	70.4	31.88	8.28	24.82	5.37
80.1	80.5	32.00	8.32	24.90	4.20*
90.1	90.6	32.10	8.38	24.97	4.62
100.0	100.6	32.22	8.47	25.05	6.65*
110.1	110.7	32.37	8.60	25.15	4.14
120.0	120.7	32.40	8.66	25.17	2.18*
130.1	130.8	32.43	8.69	25.18	+
140.1	140.9	32.43	8.70	25.18	1.65*
150.1	151.0	32.48	8.71	25.22	2.76*
160.2	161.1	32.49	8.72	25.23	1.62*
170.1	171.1	32.50	8.72	25.23	1.25*
180.1	181.1	32.50	8.74	25.23	+

MAX DEPTH 183.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1973  
 LAT N50 39.20  
 DATE 17/11/78  
 TIME (PST) 1954

TAPE CZ0/78/ 9- 96  
 LONG W126 12.50  
 PASS NO. 3  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
1.3	1.3	29.25	7.45	22.88	26.30
2.1	2.1	29.42	7.54	23.00	17.98
5.2	5.2	29.71	7.69	23.20	10.59
10.2	10.2	30.58	8.06	23.83	34.01
15.0	15.1	31.32	8.36	24.37	6.92
20.1	20.2	31.46	8.41	24.47	9.95
25.2	25.3	31.73	8.51	24.67	5.15*
30.1	30.3	31.82	8.45	24.74	6.11*
35.0	35.2	31.83	8.43	24.76	8.22
40.2	40.4	31.86	8.34	24.79	5.07*
45.2	45.4	31.88	8.31	24.81	4.01
50.0	50.3	31.95	8.28	24.87	5.38
60.1	60.4	32.03	8.31	24.93	4.08
70.1	70.5	32.14	8.43	25.00	4.70*
80.2	80.6	32.20	8.50	25.03	4.60*
90.1	90.6	32.32	8.63	25.11	4.21*
100.0	100.6	32.36	8.65	25.14	3.55*
110.2	110.8	32.40	8.66	25.17	4.54*
120.0	120.7	32.50	8.71	25.24	3.77*
130.1	130.8	32.52	8.72	25.25	4.70
140.1	140.9	32.54	8.73	25.26	.73*
150.0	150.9	32.55	8.73	25.27	.97*
160.1	161.0	32.56	8.73	25.28	1.33*
170.0	171.0	32.55	8.73	25.27	+
180.2	181.2	32.55	8.72	25.27	+
190.1	191.2	32.56	8.72	25.28	3.95*

MAX DEPTH 198.9



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 38.50  
 DATE 17/11/78  
 TIME (PST) 1908

TAPE CZ0/78/ 9- 97  
 LONG W126 17.30  
 PASS NO. 2  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.4	.4	29.52	7.51	23.08	6.76
2.1	2.1	29.52	7.53	23.08	2.40*
5.2	5.2	29.61	7.61	23.14	6.09
10.1	10.1	29.64	7.61	23.16	5.41
15.0	15.1	30.21	7.92	23.56	17.83
20.0	20.1	30.58	8.10	23.83	14.21
25.2	25.3	31.14	8.32	24.23	11.66*
30.2	30.3	31.16	8.33	24.25	9.10
35.0	35.2	31.57	8.48	24.55	6.60
40.2	40.4	31.69	8.52	24.63	5.62
45.2	45.4	31.80	8.55	24.71	6.77
50.0	50.3	31.82	8.56	24.73	6.97
60.1	60.4	31.95	8.50	24.84	8.09*
70.1	70.5	32.02	8.48	24.90	5.22
80.1	80.5	32.14	8.60	24.97	6.24*
90.2	90.7	32.29	8.67	25.08	3.75*
100.1	100.7	32.31	8.68	25.09	4.97
110.2	110.8	32.37	8.69	25.14	3.82*
120.0	120.7	32.40	8.69	25.16	2.09*
130.1	130.8	32.43	8.71	25.18	4.08*
140.1	140.9	32.45	8.71	25.20	2.02*
150.0	150.9	32.45	8.71	25.20	1.69*
160.1	161.0	32.46	8.71	25.21	+
170.0	171.0	32.47	8.72	25.21	5.01*
180.2	181.2	32.48	8.72	25.22	+
190.1	191.2	32.54	8.72	25.27	5.08

MAX DEPTH 197.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 19 KNIGHT INLET 1978  
 LAT N50 38.10  
 DATE 17/11/78  
 TIME (PST) 1809

TAPE CZ0/78/ 9- 98  
 LONG W126 25.20  
 PASS NO. 1  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.7	.7	28.73	7.37	22.48	2.59
2.1	2.1	28.77	7.38	22.51	10.34
5.2	5.2	29.34	7.65	22.92	22.43
10.2	10.2	30.31	7.98	23.63	18.73
15.0	15.1	30.41	8.03	23.70	9.81
20.0	20.1	30.93	8.17	24.09	15.99
25.1	25.2	31.40	8.31	24.44	8.11
30.1	30.2	31.53	8.37	24.53	10.58
35.0	35.2	31.70	8.43	24.65	9.36
40.2	40.4	31.90	8.51	24.80	4.37*
45.1	45.3	31.94	8.54	24.82	4.38*
50.1	50.4	31.97	8.56	24.85	6.04
60.2	60.5	32.01	8.57	24.87	2.57
70.0	70.4	32.08	8.61	24.92	3.09*
80.1	80.5	32.20	8.66	25.01	8.08
90.1	90.6	32.29	8.69	25.08	4.36*
100.0	100.6	32.34	8.71	25.11	+
110.1	110.7	32.39	8.72	25.15	3.77
120.0	120.7	32.42	8.72	25.17	2.01*
130.1	130.8	32.42	8.73	25.17	1.35*
140.1	140.9	32.43	8.74	25.18	+
150.0	150.9	32.44	8.74	25.19	3.63
160.1	161.0	32.49	8.74	25.22	2.21*
170.0	171.0	32.50	8.74	25.23	1.86*
180.2	181.2	32.52	8.74	25.25	3.12*
190.2	191.3	32.53	8.74	25.26	2.30*

MAX DEPTH 199.3

CRUISE NO. 20



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N51 2.30  
 DATE 21/11/78  
 TIME (PST) 2232

TAPE CZ0/78/ 9- 66  
 LONG W125 33.80  
 PASS NO. 1  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.43	6.04	23.19	149.32
2.0	2.0	29.40	6.14	23.15	58.83
5.1	5.2	29.59	6.37	23.27	5.99
10.1	10.2	29.67	6.36	23.34	5.58
15.1	15.1	29.71	6.58	23.34	4.78*
20.1	20.2	29.78	6.56	23.40	6.82
25.2	25.3	29.94	6.81	23.49	5.64
30.2	30.4	29.98	6.44	23.57	6.09*
35.1	35.2	30.01	6.44	23.59	6.67
40.2	40.3	30.17	6.64	23.69	8.55
45.0	45.2	30.37	7.06	23.80	4.94
50.0	50.3	30.40	7.06	23.82	7.61*
60.2	60.5	30.46	6.75	23.91	4.69
70.1	70.4	30.53	6.74	23.96	4.29
80.2	80.5	30.58	6.73	24.01	3.97*
90.3	90.7	30.64	6.80	24.05	3.00*
100.2	100.7	30.71	6.94	24.08	3.01*
110.2	110.7	30.76	7.02	24.11	2.87*
120.1	120.6	30.78	7.07	24.12	2.20*
130.2	130.8	30.83	7.16	24.15	3.98*
140.1	140.8	30.88	7.25	24.17	2.88*
150.1	150.8	30.93	7.33	24.20	3.90*
160.1	160.9	30.96	7.38	24.22	2.34*
170.2	171.0	30.99	7.42	24.24	2.52*
180.2	181.1	31.03	7.47	24.26	2.33*
190.2	191.1	31.04	7.49	24.27	2.03*
200.2	201.1	31.07	7.53	24.29	2.01*
210.2	211.2	31.08	7.55	24.29	1.49*
220.1	221.2	31.10	7.56	24.30	

MAX DEPTH 224.6



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 20 KNIGHT INLET 1978

LAT N50 58.90

DATE 21/11/78

TIME (PST) 2310

TAPE CZ0/78/ 9- 67

LONG W125 33.20

PASS NO. 2

STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.75	5.75	22.69	26.29
2.2	2.2	29.09	5.76	22.95	16.40
5.1	5.1	29.42	6.18	23.16	15.50
10.2	10.2	29.60	6.50	23.27	7.77*
15.0	15.1	29.67	6.58	23.31	6.69
20.1	20.2	29.86	6.90	23.42	10.43*
25.2	25.3	29.90	6.91	23.45	10.40*
30.2	30.4	30.18	6.84	23.68	7.38*
35.1	35.3	30.19	6.85	23.69	4.23*
40.2	40.3	30.25	6.74	23.74	5.50
45.2	45.4	30.29	6.73	23.78	5.70*
50.2	50.4	30.37	6.74	23.84	5.62*
60.0	60.3	30.46	6.70	23.91	4.54*
70.0	70.3	30.48	6.69	23.93	4.27
80.1	80.5	30.56	6.72	23.99	4.01
90.1	90.6	30.66	6.99	24.04	5.01*
100.2	100.6	30.71	6.89	24.09	4.22*
110.1	110.6	30.76	7.03	24.11	5.11
120.1	120.6	30.82	7.14	24.14	2.82*
130.1	130.7	30.85	7.23	24.16	2.26*
140.2	140.8	30.88	7.25	24.17	1.96*
150.1	150.9	30.90	7.29	24.19	2.68*
160.1	160.8	30.93	7.33	24.20	2.53*
170.0	170.8	30.97	7.39	24.23	2.82*
180.2	181.1	31.02	7.45	24.25	2.27*
190.2	191.1	31.04	7.47	24.27	2.15*
200.1	201.0	31.07	7.52	24.28	2.22*
210.1	211.1	31.09	7.55	24.30	1.84*
220.1	221.1	31.10	7.56	24.30	1.69*
230.2	231.3	31.12	7.57	24.32	1.74*
240.1	241.3	31.13	7.59	24.32	1.39*
250.2	251.4	31.13	7.60	24.32	1.00*
260.2	261.4	31.14	7.63	24.33	1.22*
270.1	271.4	31.15	7.66	24.33	1.06*
280.1	281.5	31.16	7.71	24.33	1.31*
290.1	291.5	31.18	7.77	24.34	1.64*
300.2	301.6	31.21	7.83	24.35	1.50*
310.2	311.7	31.21	7.85	24.35	1.24*
320.1	321.7	31.22	7.86	24.36	

MAX DEPTH 328.1

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 20 KNIGHT INLET 1978

LAT N50 54.30

DATE 21/11/78

TIME (PST) 2359

TAPE CZ0/78/ 9- 68

LONG W125 32.80

PASS NO. 4

STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	R-V
.0	.0	29.08	6.00	22.92	6.39*
2.1	2.1	29.05	6.00	22.89	2.36*
5.2	5.2	29.03	6.02	22.87	6.06*
10.1	10.2	29.31	6.30	23.06	5.72*
15.1	15.2	29.37	6.43	23.10	5.39*
20.0	20.1	29.50	6.96	23.13	5.81
25.1	25.2	29.69	7.12	23.25	9.29*
30.1	30.2	29.71	7.15	23.27	10.40
35.2	35.3	30.29	7.71	23.65	10.51
40.0	40.2	30.44	7.64	23.78	6.38
45.2	45.4	30.50	7.81	23.80	5.25
50.0	50.3	30.49	7.50	23.84	4.78*
60.2	60.4	30.49	6.95	23.91	5.06*
70.2	70.5	30.50	6.83	23.93	2.84*
80.2	80.5	30.60	7.00	23.99	5.35*
90.2	90.6	30.65	7.04	24.02	2.13*
100.1	100.5	30.73	7.24	24.05	4.44
110.3	110.8	30.75	7.16	24.08	2.75*
120.1	120.7	30.80	7.24	24.12	3.14*
130.1	130.7	30.82	7.24	24.13	2.78*
140.1	140.8	30.89	7.32	24.17	2.97*
150.2	151.0	30.93	7.36	24.20	3.10*
160.1	160.9	30.97	7.40	24.22	2.61*
170.2	171.0	31.00	7.43	24.24	2.30*
180.2	181.1	31.02	7.47	24.25	2.18*
190.2	191.1	31.05	7.53	24.27	2.58*
200.2	201.1	31.08	7.57	24.29	2.20*
210.2	211.2	31.09	7.58	24.30	1.78*
220.0	221.1	31.11	7.59	24.31	1.65*
230.3	231.4	31.13	7.61	24.32	1.53*
240.2	241.4	31.13	7.62	24.32	1.02*
250.1	251.3	31.14	7.63	24.33	1.03*
260.1	261.4	31.15	7.67	24.33	1.20*
270.0	271.4	31.16	7.71	24.33	1.22*
280.1	281.5	31.18	7.77	24.34	1.40*
290.1	291.5	31.19	7.82	24.34	.93*
300.1	301.6	31.20	7.83	24.35	.99*
310.1	311.6	31.21	7.85	24.35	.99*
320.0	321.6	31.21	7.86	24.35	1.05*
330.1	331.7	31.22	7.87	24.36	1.13*
340.2	341.9	31.22	7.87	24.36	.94*
360.1	361.9	31.23	7.87	24.36	.84*
380.0	381.9	31.23	7.87	24.36	.96*
400.1	402.1	31.23	7.87	24.36	.93*

MAX DEPTH 416.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 52.40  
 DATE 22/11/78  
 TIME (PST) 0046

TAPE CZ0/78/ 9- 69  
 LONG W125 38.50  
 PASS NO. 5  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.51	6.05	22.46	71.77*
2.1	2.1	28.73	6.09	22.63	54.38*
5.1	5.2	28.66	6.37	22.55	28.29*
10.1	10.1	28.95	6.95	22.70	11.67
15.1	15.1	29.32	7.35	22.94	10.47
20.1	20.2	29.83	7.79	23.28	9.72
25.2	25.3	30.18	8.10	23.51	8.20
30.3	30.4	30.33	8.00	23.64	8.12*
35.2	35.4	30.48	8.15	23.74	6.80*
40.1	40.2	30.57	8.11	23.81	5.66*
45.2	45.4	30.62	8.10	23.86	5.81
50.1	50.3	30.65	7.91	23.90	7.18*
60.1	60.4	30.68	7.82	23.94	4.02*
70.2	70.5	30.72	7.74	23.98	4.21*
80.1	80.5	30.78	7.79	24.02	4.23
90.2	90.6	30.81	7.74	24.05	2.64*
100.1	100.6	30.81	7.60	24.07	2.27*
110.2	110.7	30.81	7.54	24.08	3.68*
120.0	120.6	30.83	7.44	24.11	3.60*
130.2	130.8	30.88	7.36	24.16	2.73*
140.2	140.8	30.89	7.34	24.17	2.09*
150.1	150.9	30.90	7.34	24.18	2.69*
160.0	160.8	30.95	7.40	24.21	3.07
170.0	170.8	30.98	7.42	24.23	3.23*
180.3	181.1	31.03	7.51	24.26	2.11*
190.1	191.0	31.06	7.55	24.27	2.44*
200.3	201.3	31.09	7.60	24.29	1.94*
210.0	211.0	31.10	7.61	24.30	2.29*
220.0	221.1	31.12	7.63	24.31	1.70*
230.2	231.3	31.13	7.63	24.32	1.41*
240.2	241.3	31.14	7.65	24.32	.99*
250.2	251.4	31.15	7.69	24.33	1.16*
260.1	261.4	31.17	7.72	24.33	1.13*
270.3	271.6	31.18	7.75	24.34	1.26*
280.1	281.5	31.18	7.78	24.34	1.16*
290.3	291.7	31.20	7.81	24.34	1.44*
300.3	301.8	31.21	7.84	24.35	2.87*
310.0	311.6	31.21	7.85	24.35	1.54*
320.2	321.7	31.21	7.86	24.35	1.31*
330.1	331.7	31.22	7.86	24.36	5.15*
340.1	341.8	31.22	7.86	24.36	.81*
360.3	362.1	31.23	7.86	24.36	.84*
380.1	382.0	31.23	7.87	24.36	.53*
400.2	402.1	31.23	7.87	24.37	.88*
420.2	422.2	31.23	7.87	24.37	.52*
440.2	442.4	31.24	7.87	24.37	.52*
460.1	462.3	31.24	7.87	24.37	.55*
480.1	482.5	31.24	7.87	24.37	1.13*

MAX DEPTH 490.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 47.90  
 DATE 22/11/78  
 TIME (PST) 0139

TAPE CZ0/78/ 9- 70  
 LONG W125 37.00  
 PASS NO. 6  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.36	6.12	22.34	+
2.1	2.1	28.36	6.16	22.33	1.29*
5.2	5.2	28.36	6.13	22.34	2.63
10.2	10.3	28.61	6.82	22.45	18.37
15.1	15.2	29.42	7.78	22.96	12.57
20.1	20.1	30.02	8.03	23.40	15.53
25.2	25.3	30.29	8.14	23.59	6.27
30.1	30.2	30.39	8.16	23.66	7.39
35.1	35.3	30.49	8.18	23.74	8.66
40.0	40.2	30.63	8.17	23.85	7.00*
45.0	45.2	30.65	8.16	23.87	2.89*
50.0	50.3	30.66	8.16	23.88	5.04
60.0	60.3	30.74	8.16	23.94	3.67*
70.0	70.4	30.79	8.13	23.98	5.06
80.1	80.5	30.82	8.09	24.01	2.84*
90.1	90.6	30.85	8.07	24.04	2.25*
100.2	100.7	30.88	8.00	24.07	3.16*
110.0	110.5	30.89	7.83	24.10	2.97*
120.1	120.7	30.91	7.80	24.12	2.89*
130.2	130.8	30.92	7.65	24.15	3.13*
140.2	140.9	30.94	7.58	24.17	2.04*
150.0	150.7	30.94	7.52	24.18	2.52*
160.1	160.8	30.95	7.48	24.20	2.23*
170.1	170.9	30.98	7.49	24.22	2.76*
180.1	180.9	31.02	7.53	24.25	2.81*
190.1	191.0	31.05	7.57	24.26	1.99*
200.3	201.2	31.07	7.58	24.28	2.23*
210.1	211.1	31.10	7.62	24.30	1.83*
220.1	221.2	31.12	7.64	24.31	1.46*
230.0	231.1	31.13	7.65	24.31	1.61*
240.1	241.3	31.13	7.66	24.32	1.53*
250.1	251.4	31.15	7.68	24.32	.72*
260.3	261.5	31.15	7.71	24.33	1.45*
270.2	271.5	31.16	7.73	24.33	1.33*
280.0	281.4	31.18	7.77	24.34	1.49*
290.2	291.6	31.19	7.79	24.34	1.17*
300.3	301.7	31.19	7.81	24.34	1.13*
310.1	311.6	31.21	7.83	24.35	1.43*
320.2	321.8	31.21	7.83	24.35	1.56
330.1	331.7	31.21	7.84	24.35	1.51*
340.0	341.7	31.22	7.84	24.36	.73*
360.3	362.1	31.22	7.85	24.36	.93*
380.2	382.1	31.23	7.86	24.36	.60*
400.1	402.0	31.23	7.86	24.37	.67*
420.2	422.2	31.23	7.86	24.37	.81*
440.1	442.3	31.24	7.86	24.37	.67*
460.1	462.4	31.24	7.86	24.37	.64*
480.0	482.4	31.24	7.87	24.37	.68*

MAX DEPTH 496.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 45.10  
 DATE 22/11/78  
 TIME (PST) 0225

TAPE CZ0/78/ 9- 71  
 LONG W125 41.00  
 PASS NO. 7  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.35	6.39	22.29	+
2.1	2.1	28.35	6.39	22.30	1.64
5.1	5.2	28.33	6.39	22.28	+
10.1	10.2	28.34	6.45	22.28	+
15.2	15.2	28.69	6.95	22.49	10.81
20.1	20.2	28.98	7.21	22.69	16.70
25.1	25.2	29.93	7.92	23.34	11.56
30.1	30.2	30.07	8.02	23.43	6.75
35.1	35.2	30.34	8.14	23.63	10.07
40.1	40.3	30.50	8.20	23.75	7.51
45.2	45.4	30.59	8.21	23.82	4.64
50.2	50.5	30.66	8.21	23.87	5.61
60.0	60.3	30.76	8.21	23.95	4.28*
70.1	70.4	30.80	8.19	23.98	3.38*
80.3	80.6	30.83	8.19	24.01	2.56*
90.1	90.5	30.85	8.11	24.03	3.46
100.2	100.6	30.90	8.05	24.08	3.35*
110.3	110.8	30.91	7.99	24.10	1.96*
120.2	120.7	30.93	7.97	24.12	2.75*
130.2	130.8	30.95	7.95	24.14	2.52*
140.1	140.8	30.96	7.91	24.15	2.76*
150.1	150.9	30.99	7.84	24.18	3.80*
160.1	160.8	31.01	7.81	24.20	2.49*
170.0	170.8	31.03	7.79	24.21	2.15*
180.1	180.9	31.03	7.62	24.24	4.65*
190.0	190.9	31.06	7.60	24.26	2.50*
200.1	201.0	31.08	7.63	24.28	1.93*
210.2	211.3	31.09	7.64	24.29	1.56*
220.1	221.1	31.11	7.67	24.30	1.74*
230.1	231.2	31.12	7.68	24.31	1.60*
240.1	241.3	31.14	7.69	24.32	1.65*
250.1	251.4	31.15	7.73	24.32	1.42*
260.1	261.4	31.16	7.73	24.33	1.24*
270.1	271.4	31.17	7.76	24.33	1.36*
280.1	281.4	31.18	7.77	24.34	1.12*
290.2	291.6	31.18	7.78	24.34	1.03*
300.1	301.5	31.19	7.79	24.35	1.05*
310.2	311.7	31.20	7.81	24.35	1.18*
320.2	321.8	31.20	7.82	24.35	1.06*
330.2	331.8	31.21	7.82	24.35	1.03*
340.1	341.8	31.21	7.83	24.36	1.30*
360.3	362.0	31.22	7.85	24.36	.70*
380.1	381.9	31.22	7.85	24.36	.80*
400.1	402.1	31.23	7.85	24.36	.87*
420.2	422.3	31.23	7.86	24.37	.93*
440.2	442.4	31.23	7.86	24.37	.74*
460.3	462.6	31.24	7.86	24.37	.54*
480.1	482.4	31.24	7.87	24.37	.56*

MAX DEPTH 497.6



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 41.90  
 DATE 22/11/78  
 TIME (PST) 0309

TAPE CZ0/78/ 9- 72  
 LONG W125 43.50  
 PASS NO. 8  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	26.99	5.77	21.30	44.91
2.1	2.1	28.08	6.40	22.08	29.86
5.0	5.0	28.49	6.73	22.37	6.73
10.2	10.2	28.52	6.81	22.38	9.75*
15.2	15.2	28.77	7.10	22.54	15.97
20.1	20.2	29.87	7.90	23.30	14.00
25.2	25.3	30.10	8.02	23.46	14.44
30.2	30.3	30.21	8.07	23.54	6.12*
35.1	35.3	30.30	8.10	23.60	6.52
40.2	40.3	30.48	8.18	23.73	12.53
45.2	45.4	30.65	8.23	23.86	7.56*
50.2	50.4	30.67	8.22	23.87	3.74*
60.0	60.3	30.75	8.25	23.94	5.09
70.2	70.5	30.82	8.22	24.00	3.34*
80.0	80.4	30.86	8.21	24.03	3.51
90.1	90.5	30.89	8.24	24.04	2.91*
100.2	100.7	30.91	8.22	24.07	1.77*
110.1	110.6	30.92	8.20	24.08	2.27*
120.1	120.7	30.96	8.15	24.11	2.38*
130.0	130.7	30.97	8.04	24.13	3.81*
140.0	140.7	31.00	8.02	24.16	2.26*
150.1	150.8	31.01	7.99	24.17	2.71*
160.2	161.0	31.04	7.88	24.21	2.75*
170.1	170.9	31.05	7.84	24.23	2.25*
180.2	181.0	31.07	7.83	24.24	1.32*
190.2	191.1	31.08	7.83	24.25	2.07*
200.2	201.1	31.11	7.83	24.28	2.20*
210.0	211.1	31.13	7.82	24.29	1.84*
220.2	221.2	31.14	7.81	24.30	1.15*
230.1	231.2	31.14	7.80	24.30	1.05*
240.2	241.4	31.15	7.79	24.31	2.04*
250.2	251.4	31.16	7.78	24.32	1.64*
260.1	261.4	31.17	7.79	24.33	1.08*
270.1	271.4	31.17	7.79	24.33	1.02*
280.1	281.5	31.17	7.79	24.33	1.23*
290.1	291.6	31.18	7.81	24.33	1.39*
300.1	301.5	31.19	7.83	24.34	1.37*
310.2	311.7	31.20	7.83	24.34	1.33*
320.1	321.6	31.20	7.82	24.35	.76*
330.1	331.7	31.20	7.82	24.35	.80*
340.2	341.9	31.20	7.82	24.35	1.24*
360.0	361.8	31.22	7.84	24.36	1.34*
380.0	381.9	31.22	7.84	24.36	.64*
400.1	402.1	31.23	7.85	24.37	.91*
420.2	422.2	31.23	7.85	24.36	.45*
440.0	442.2	31.23	7.85	24.36	+

MAX DEPTH 445.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 41.70  
 DATE 22/11/78  
 TIME (PST) 0341

TAPE CZ0/78/ 9- 73  
 LONG W125 46.60  
 PASS NO. 9  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.46	6.48	22.37	38.44
2.0	2.0	28.43	6.49	22.35	2.81*
5.0	5.0	28.20	6.48	22.17	32.69
10.2	10.2	28.22	6.53	22.18	+
15.2	15.2	29.04	7.41	22.71	21.20
20.1	20.1	30.12	8.05	23.47	15.45
25.0	25.1	30.36	8.14	23.65	10.28*
30.2	30.3	30.52	8.19	23.76	7.49
35.2	35.3	30.63	8.23	23.84	6.97
40.1	40.3	30.70	8.22	23.90	6.64
45.1	45.3	30.73	8.23	23.92	3.66*
50.2	50.4	30.76	8.24	23.94	4.30
60.1	60.3	30.80	8.24	23.98	2.46
70.2	70.5	30.84	8.26	24.01	4.25*
80.2	80.6	30.88	8.25	24.04	3.69*
90.0	90.4	30.94	8.24	24.08	3.05*
100.2	100.7	30.97	8.25	24.11	2.33*
110.1	110.6	30.99	8.18	24.13	4.78*
120.0	120.6	31.00	8.16	24.14	1.81*
130.0	130.6	31.01	8.13	24.16	2.85*
140.1	140.7	31.04	8.08	24.18	2.84*
150.1	150.8	31.06	8.06	24.20	2.60*
160.1	160.8	31.08	7.99	24.23	2.45*
170.0	170.8	31.09	7.96	24.24	2.53*
180.2	181.1	31.11	7.84	24.28	4.33
190.2	191.1	31.12	7.81	24.28	1.25*
200.1	201.1	31.13	7.81	24.29	1.59*
210.2	211.2	31.14	7.80	24.30	1.90*
220.1	221.2	31.16	7.81	24.32	1.50*
230.2	231.3	31.16	7.81	24.32	1.27*
240.2	241.3	31.17	7.81	24.32	1.26*
250.2	251.4	31.18	7.81	24.33	1.48*
260.1	261.4	31.19	7.81	24.34	1.39*
270.1	271.4	31.19	7.82	24.34	1.24*
280.2	281.5	31.19	7.82	24.34	+
290.2	291.6	31.19	7.82	24.34	+
300.0	301.5	31.19	7.82	24.34	+
310.0	311.5	31.20	7.82	24.35	1.42*
320.1	321.6	31.20	7.83	24.35	.98*
330.2	331.8	31.21	7.83	24.36	.75*
340.0	341.7	31.21	7.83	24.36	.61*
360.1	361.9	31.21	7.83	24.36	+

MAX DEPTH 366.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 41.60  
 DATE 22/11/78  
 TIME (PST) 0410

TAPE CZ0/78/ 9- 74  
 LONG W125 49.30  
 PASS NO. 10  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.40	6.50	22.32	46.70
2.1	2.1	28.26	6.51	22.21	2.08
5.1	5.1	28.21	6.50	22.17	31.06
10.1	10.1	28.66	7.11	22.46	+
15.1	15.1	28.82	7.23	22.56	12.57
20.1	20.2	29.93	7.97	23.33	9.67
25.2	25.3	30.31	8.14	23.61	7.77
30.1	30.3	30.53	8.21	23.77	7.35
35.0	35.2	30.61	8.22	23.83	9.42
40.1	40.3	30.70	8.23	23.90	6.43
45.2	45.4	30.78	8.26	23.96	4.92*
50.1	50.3	30.81	8.27	23.98	3.10*
60.1	60.3	30.84	8.27	24.00	3.69*
70.2	70.5	30.88	8.23	24.04	2.83*
80.0	80.4	30.91	8.23	24.06	2.99*
90.1	90.5	30.95	8.24	24.09	4.11*
100.2	100.6	30.99	8.23	24.13	2.42*
110.1	110.6	31.01	8.21	24.15	2.49*
120.0	120.6	31.02	8.22	24.15	2.52*
130.0	130.6	31.04	8.15	24.18	2.79*
140.0	140.7	31.06	8.04	24.21	3.57*
150.1	150.8	31.08	7.99	24.23	2.76
160.0	160.8	31.11	7.89	24.27	3.73*
170.1	171.0	31.13	7.90	24.28	1.70*
180.1	181.0	31.14	7.87	24.29	1.57*
190.1	191.0	31.15	7.85	24.30	1.76*
200.1	201.0	31.15	7.86	24.31	1.16*
210.1	211.1	31.16	7.85	24.31	1.48*
220.2	221.2	31.16	7.82	24.32	1.59*
230.1	231.2	31.17	7.83	24.33	1.22*
240.1	241.3	31.17	7.82	24.33	.97*
250.1	251.3	31.17	7.82	24.33	.73*
260.1	261.4	31.18	7.82	24.33	.91*
270.1	271.4	31.18	7.82	24.33	1.12*
280.1	281.4	31.19	7.83	24.34	+
290.2	291.6	31.19	7.83	24.34	+
300.1	301.6	31.20	7.83	24.34	+
310.1	311.6	31.20	7.83	24.34	.99*
320.1	321.7	31.21	7.83	24.35	1.22*
330.1	331.7	31.20	7.84	24.35	1.55*

MAX DEPTH 338.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 41.10  
 DATE 22/11/78  
 TIME (PST) 0439

TAPE CZ0/78/ 9- 75  
 LONG W125 51.90  
 PASS NO. 11  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.04	6.19	22.07	2.74
2.1	2.1	28.03	6.18	22.07	2.92*
5.1	5.1	28.03	6.20	22.07	7.30
10.0	10.1	28.38	6.91	22.26	11.86
15.1	15.1	28.73	7.28	22.49	7.02
20.1	20.2	29.48	7.71	23.02	20.46
25.2	25.3	30.01	8.00	23.39	14.87
30.1	30.2	30.34	8.13	23.63	8.21
35.1	35.3	30.43	8.17	23.70	4.77*
40.1	40.3	30.47	8.19	23.73	5.45
45.1	45.3	30.57	8.22	23.80	7.48
50.1	50.3	30.69	8.25	23.89	7.78
60.0	60.3	30.74	8.26	23.92	2.86*
70.1	70.4	30.78	8.26	23.96	2.84*
80.0	80.4	30.82	8.25	23.99	4.61
90.1	90.5	30.89	8.27	24.04	4.03*
100.1	100.6	30.95	8.26	24.09	2.28*
110.1	110.6	30.96	8.26	24.10	1.50*
120.0	120.6	30.97	8.25	24.10	1.57*
130.1	130.7	30.98	8.25	24.12	2.52*
140.2	140.9	31.01	8.21	24.15	3.19*
150.1	150.8	31.03	8.12	24.17	3.14*
160.1	160.9	31.05	8.04	24.20	3.53*
170.1	170.9	31.07	7.99	24.22	2.15*
180.0	180.9	31.10	7.97	24.25	2.77*
190.2	191.1	31.11	7.92	24.26	1.69*
200.0	201.0	31.13	7.86	24.29	2.83*
210.1	211.1	31.14	7.85	24.30	1.66*
220.1	221.2	31.15	7.84	24.31	1.46*
230.1	231.2	31.16	7.85	24.31	1.47*
240.1	241.3	31.17	7.88	24.32	1.79*
250.1	251.3	31.18	7.86	24.33	1.64*
260.1	261.3	31.18	7.84	24.33	1.06*
270.2	271.5	31.19	7.83	24.34	1.14*
280.1	281.4	31.19	7.83	24.34	1.24*
290.1	291.5	31.19	7.83	24.34	1.00*
300.2	301.6	31.19	7.83	24.34	1.01*
310.2	311.7	31.20	7.83	24.34	1.22*

MAX DEPTH 319.2



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 40.70  
 DATE 22/11/78  
 TIME (PST) 0504

TAPE CZ0/78/ 9- 76  
 LONG W125 54.40  
 PASS NO. 12  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.13	6.48	22.11	17.81
2.0	2.0	28.14	6.55	22.11	2.15*
5.1	5.2	28.09	6.68	22.06	17.29
10.2	10.2	28.17	6.86	22.10	+
15.1	15.2	28.46	7.15	22.29	16.26
20.1	20.2	29.28	7.68	22.86	15.74
25.1	25.2	29.62	7.83	23.11	12.70
30.1	30.2	29.89	7.96	23.30	6.17*
35.0	35.2	29.90	7.96	23.31	6.80*
40.1	40.2	30.08	8.04	23.44	7.36
45.1	45.3	30.29	8.12	23.59	11.55
50.1	50.3	30.52	8.21	23.76	11.07*
60.2	60.5	30.70	8.25	23.89	6.35
70.2	70.5	30.78	8.29	23.95	4.61
80.1	80.5	30.85	8.30	24.00	2.30*
90.0	90.4	30.87	8.30	24.02	3.47*
100.2	100.6	30.91	8.30	24.05	3.42*
110.0	110.5	30.94	8.30	24.08	3.09*
120.2	120.7	30.97	8.29	24.10	2.12*
130.2	130.8	30.99	8.29	24.12	3.03*
140.1	140.7	31.02	8.26	24.15	2.61*
150.1	150.8	31.04	8.26	24.16	2.27*
160.2	160.9	31.06	8.15	24.19	6.01*
170.0	170.8	31.07	8.06	24.21	2.31*
180.1	180.9	31.08	8.09	24.22	2.26*
190.1	191.0	31.10	8.02	24.24	2.86*
200.1	201.1	31.12	7.97	24.27	2.43*
210.2	211.2	31.13	7.95	24.28	2.01*
220.2	221.2	31.15	7.93	24.29	1.72*
230.1	231.2	31.15	7.91	24.30	1.27*
240.1	241.3	31.16	7.90	24.30	1.31*
250.0	251.2	31.16	7.90	24.31	1.58*
260.1	261.4	31.17	7.87	24.32	2.09*
270.2	271.5	31.18	7.85	24.33	1.66*
280.1	281.4	31.19	7.85	24.33	+
290.1	291.5	31.19	7.85	24.33	+
300.1	301.5	31.19	7.84	24.34	+
310.2	311.7	31.19	7.84	24.34	1.05*
320.1	321.6	31.19	7.84	24.34	.92*
330.2	331.8	31.20	7.84	24.34	.73*
340.1	341.7	31.20	7.84	24.34	1.52*

MAX DEPTH 347.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 22/11/78  
 TIME (PST) 0534

TAPE CZ0/78/ 9- 77  
 LONG W125 57.20  
 PASS NO. 13  
 STN: 10 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.02	6.50	22.02	8.58
2.1	2.1	28.10	6.57	22.08	5.39*
5.1	5.2	28.42	7.03	22.27	13.81
10.2	10.2	28.83	7.27	22.57	19.04
15.1	15.1	29.32	7.57	22.91	15.11
20.1	20.2	29.50	7.68	23.04	12.42
25.1	25.2	29.95	7.91	23.36	14.14
30.2	30.3	30.29	8.10	23.59	11.68
35.2	35.4	30.39	8.14	23.67	9.44*
40.1	40.2	30.55	8.21	23.78	6.49*
45.2	45.4	30.71	8.27	23.90	4.39*
50.2	50.4	30.75	8.29	23.93	3.50*
60.1	60.4	30.79	8.30	23.96	3.40*
70.1	70.4	30.80	8.31	23.97	+
80.0	80.4	30.81	8.31	23.97	2.23*
90.0	90.4	30.82	8.30	23.99	4.65
100.1	100.5	30.93	8.30	24.07	2.65*
110.0	110.5	30.97	8.28	24.10	3.35*
120.1	120.6	30.99	8.28	24.12	1.82*
130.1	130.7	31.00	8.28	24.12	3.06*
140.2	140.8	31.07	8.27	24.18	4.43
150.2	150.9	31.07	8.13	24.20	1.51*
160.1	160.8	31.09	8.10	24.22	3.94
170.1	170.9	31.11	7.92	24.26	3.22*
180.0	180.9	31.13	7.88	24.28	1.86*
190.0	191.0	31.14	7.87	24.29	1.60*
200.0	201.0	31.15	7.88	24.30	2.13*
210.1	211.1	31.16	7.88	24.31	1.43*
220.2	221.2	31.16	7.86	24.31	1.71*
230.1	231.2	31.17	7.86	24.32	1.43*
240.1	241.2	31.18	7.85	24.33	1.53*
250.1	251.3	31.18	7.84	24.33	1.28*
260.0	261.3	31.18	7.84	24.33	1.00*
270.1	271.4	31.19	7.83	24.34	.90*
280.2	281.5	31.20	7.83	24.34	+
290.2	291.6	31.20	7.83	24.34	+
300.0	301.5	31.20	7.83	24.35	+
310.2	311.7	31.19	7.83	24.34	.70*
320.1	321.7	31.20	7.83	24.34	+

MAX DEPTH 322.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 22/11/78  
 TIME (PST) 0559

TAPE CZ0/78/ 9- 78  
 LONG W125 59.50  
 PASS NO. 14  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.31	6.80	22.22	5.51*
2.1	2.1	28.30	6.90	22.20	8.20*
5.0	5.1	28.24	6.73	22.17	12.24*
10.1	10.1	28.93	7.40	22.63	12.46
15.1	15.1	29.38	7.60	22.95	7.47
20.1	20.2	29.61	7.72	23.12	11.33
25.1	25.2	30.05	7.94	23.43	8.58
30.2	30.3	30.32	8.12	23.61	10.10
35.1	35.2	30.47	8.19	23.73	11.09
40.1	40.3	30.55	8.24	23.78	4.18*
45.0	45.2	30.62	8.26	23.83	5.08*
50.2	50.4	30.65	8.27	23.85	4.67*
60.2	60.5	30.72	8.28	23.90	5.20
70.0	70.3	30.76	8.29	23.94	4.75
80.0	80.4	30.95	8.37	24.07	+

MAX DEPTH 84.3

CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 39.90  
 DATE 22/11/78  
 TIME (PST) 0637

TAPE CZ0/78/ 9-114  
 LONG W126 4.20  
 PASS NO. 15  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
10.1	10.1	28.63	7.13	22.43	*****
15.1	15.2	29.10	7.53	22.74	20.86
20.1	20.1	29.91	8.03	23.31	11.91
25.1	25.2	30.42	8.32	23.67	7.50
30.0	30.2	30.50	8.35	23.73	6.11
35.0	35.2	30.60	8.40	23.80	7.20
40.1	40.3	30.65	8.32	23.85	6.19
45.2	45.4	30.74	8.30	23.92	7.51
50.2	50.4	30.86	8.40	23.99	6.44*
60.0	60.3	31.00	8.44	24.10	5.33
70.0	70.4	31.10	8.49	24.17	6.59
80.0	80.4	31.22	8.50	24.25	3.00*
90.0	90.4	31.25	8.61	24.27	3.24*
100.1	100.6	31.29	8.64	24.30	3.26*
110.2	110.7	31.36	8.67	24.34	2.36*
120.0	120.6	31.37	8.68	24.36	1.87*
130.2	130.8	31.39	8.69	24.37	1.91*
140.2	140.9	31.39	8.69	24.37	1.65*
150.2	150.9	31.40	8.67	24.38	1.79*
160.1	160.9	31.41	8.67	24.39	.92*
170.1	171.0	31.42	8.67	24.40	1.99*
180.1	181.0	31.45	8.67	24.42	2.85*
190.0	191.0	31.45	8.67	24.42	

MAX DEPTH 194.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 39.20  
 DATE 22/11/78  
 TIME (PST) 0716

TAPE CZ0/78/ 9- 80  
 LONG W126 12.50  
 PASS NO. 16  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.87	6.48	21.91	12.50*
2.0	2.0	28.03	6.16	22.07	12.92*
5.0	5.1	28.15	6.84	22.09	13.84*
10.1	10.1	28.80	7.29	22.54	13.48
15.2	15.3	29.06	7.51	22.72	7.79
20.1	20.2	29.93	7.99	23.33	10.73
25.2	25.3	30.22	8.14	23.54	17.15
30.0	30.2	30.64	8.36	23.83	11.29
35.1	35.3	30.68	8.39	23.86	4.59*
40.1	40.3	30.71	8.41	23.88	4.58
45.2	45.4	30.79	8.44	23.94	4.98
50.1	50.3	30.82	8.46	23.96	3.51*
60.1	60.4	30.99	8.53	24.08	7.34*
70.1	70.5	31.16	8.58	24.20	5.43
80.2	80.6	31.20	8.60	24.24	2.96*
90.1	90.5	31.26	8.62	24.28	3.10*
100.1	100.6	31.29	8.62	24.30	2.95*
110.2	110.7	31.33	8.63	24.33	3.69*
120.1	120.7	31.37	8.64	24.36	3.31*
130.1	130.7	31.44	8.65	24.41	3.85*
140.1	140.8	31.45	8.66	24.42	2.29*
150.2	151.0	31.48	8.66	24.44	1.88*
160.2	161.0	31.48	8.66	24.44	1.35*
170.0	170.9	31.49	8.66	24.45	2.14*
180.2	181.1	31.51	8.65	24.47	1.25*
190.1	191.0	31.52	8.65	24.48	1.58*

MAX DEPTH 200.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 20 KNIGHT INLET 1978  
 LAT N50 38.50  
 DATE 22/11/78  
 TIME (PST) 0745

TAPE CZ0/78/ 9- 81  
 LONG W126 17.30  
 PASS NO. 17  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.87	6.57	21.90	3.03
2.1	2.1	27.81	6.54	21.86	2.84*
5.1	5.1	27.93	6.58	21.94	7.19
10.1	10.2	28.40	7.05	22.26	11.34
15.0	15.1	29.26	7.56	22.87	21.49
20.2	20.3	29.86	7.95	23.28	16.58
25.2	25.3	30.42	8.24	23.68	7.69
30.0	30.2	30.52	8.30	23.75	5.55
35.0	35.2	30.58	8.32	23.79	5.15*
40.0	40.2	30.64	8.35	23.84	6.53*
45.0	45.2	30.82	8.46	23.96	6.65*
50.0	50.2	30.94	8.53	24.04	6.49*
60.2	60.4	31.01	8.56	24.09	4.01
70.2	70.5	31.13	8.60	24.18	5.03
80.2	80.5	31.27	8.63	24.29	4.33*
90.1	90.5	31.33	8.65	24.33	2.87*
100.2	100.7	31.36	8.66	24.35	4.22*
110.1	110.6	31.37	8.67	24.36	3.58
120.1	120.7	31.41	8.65	24.39	2.09*
130.2	130.8	31.41	8.66	24.39	1.49*
140.1	140.8	31.41	8.66	24.39	+
150.0	150.8	31.42	8.66	24.39	2.88
160.1	160.9	31.49	8.65	24.45	4.09*
170.2	171.0	31.52	8.65	24.47	2.51*
180.1	181.0	31.52	8.65	24.48	1.44*
190.2	191.1	31.54	8.65	24.49	1.00*
200.1	201.1	31.53	8.66	24.48	3.76
210.2	211.2	31.55	8.66	24.50	+
220.1	221.2	31.55	8.66	24.50	+
230.1	231.3	31.55	8.66	24.50	+

MAX DEPTH 236.7





CRUISE NO. 21



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N51 2.30  
 DATE 13/12/78  
 TIME (PST) 0531

TAPE CZ0/78/10- 1  
 LONG W125 33.80  
 PASS NO. 33  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	25.62	4.63	20.33	41.51
2.2	2.2	27.71	5.09	21.93	35.66
5.2	5.2	29.25	6.28	23.02	31.10
10.2	10.3	30.04	6.79	23.58	13.02
15.1	15.2	30.29	7.09	23.74	9.51
20.1	20.2	30.37	7.05	23.80	6.49
25.1	25.2	30.42	6.99	23.85	5.35
30.1	30.2	30.47	6.89	23.90	5.80*
35.2	35.4	30.50	6.82	23.93	4.63*
40.0	40.2	30.54	6.81	23.96	4.38*
45.1	45.3	30.57	6.79	23.99	4.13*
50.2	50.4	30.60	6.81	24.01	3.51*
60.1	60.4	30.66	6.96	24.04	2.90*
70.1	70.4	30.69	6.91	24.07	3.02*
80.2	80.6	30.73	6.94	24.10	2.99*
90.1	90.5	30.78	7.03	24.13	2.83*
100.2	100.7	30.82	7.12	24.15	2.52*
110.2	110.8	30.86	7.18	24.16	2.32*
120.1	120.7	30.89	7.24	24.18	2.47*
130.2	130.8	30.92	7.28	24.20	2.20*
140.0	140.7	30.94	7.34	24.21	2.07*
150.0	150.7	30.96	7.37	24.22	2.31*
160.2	160.9	31.01	7.40	24.26	2.34*
170.1	170.9	31.03	7.43	24.26	2.25*
180.1	181.0	31.04	7.46	24.27	1.93*
190.1	191.0	31.04	7.47	24.27	1.75*
200.1	201.0	31.06	7.49	24.28	1.93*
210.2	211.2	31.08	7.51	24.29	1.83*
220.0	221.1	31.09	7.53	24.30	

MAX DEPTH 220.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 58.90  
 DATE 13/12/78  
 TIME (PST) 0450

TAPE CZ0/78/10- 2  
 LONG W125 33.20  
 PASS NO. 31  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	25.44	4.16	20.22	66.39
2.0	2.0	27.69	5.32	21.89	42.19
5.0	5.0	28.05	5.58	22.15	34.50
10.2	10.2	29.92	6.65	23.50	9.70
15.1	15.1	30.14	6.80	23.65	11.33
20.2	20.3	30.36	6.92	23.81	8.31*
25.0	25.2	30.44	6.89	23.88	8.47
30.1	30.3	30.52	7.05	23.92	6.92*
35.2	35.4	30.55	6.98	23.95	5.16
40.1	40.3	30.60	6.95	23.99	5.38
45.0	45.2	30.64	7.02	24.01	3.82*
50.1	50.3	30.69	7.11	24.04	4.80
60.1	60.3	30.72	7.07	24.07	2.86*
70.1	70.4	30.75	7.10	24.09	4.05
80.1	80.5	30.77	7.05	24.11	3.24*
90.2	90.7	30.81	7.11	24.14	2.96*
100.1	100.6	30.86	7.25	24.16	2.37*
110.0	110.5	30.89	7.32	24.17	2.46*
120.2	120.8	30.91	7.30	24.19	2.24*
130.1	130.7	30.94	7.34	24.21	2.58*
140.2	140.8	30.97	7.43	24.22	3.79*
150.2	150.9	30.97	7.38	24.23	2.19*
160.2	160.9	31.01	7.48	24.24	1.80*
170.1	170.9	31.01	7.44	24.25	1.97*
180.2	181.0	31.05	7.50	24.27	1.85*
190.1	191.1	31.06	7.53	24.28	4.41*
200.1	201.1	31.07	7.54	24.29	1.56*
210.1	211.1	31.08	7.54	24.29	1.47*
220.1	221.2	31.10	7.56	24.30	1.52*
230.0	231.1	31.11	7.58	24.31	1.85*
240.1	241.2	31.12	7.56	24.32	1.78*
250.2	251.4	31.13	7.58	24.33	1.48*
260.1	261.3	31.14	7.60	24.33	1.34*
270.1	271.4	31.15	7.63	24.33	1.42*
280.1	281.4	31.16	7.63	24.34	1.20*
290.1	291.5	31.17	7.67	24.34	1.27*
300.0	301.5	31.18	7.70	24.35	1.10*
310.2	311.7	31.19	7.73	24.35	1.20*
320.1	321.7	31.21	7.78	24.36	

MAX DEPTH 328.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 54.30  
 DATE 13/12/78  
 TIME (PST) 0400

TAPE C20/78/10- 3  
 LONG W125 32.80  
 PASS NO. 29  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.18	4.97	21.53	44.21
2.0	2.0	27.23	4.90	21.58	10.44*
5.1	5.2	29.15	6.34	22.93	27.98
10.2	10.3	29.94	6.70	23.51	11.74
15.0	15.1	30.21	7.12	23.67	5.75
20.1	20.2	30.32	7.13	23.76	6.59
25.2	25.3	30.47	7.40	23.84	6.64*
30.1	30.2	30.53	7.50	23.86	5.43*
35.0	35.2	30.56	7.20	23.93	4.75*
40.1	40.3	30.59	7.24	23.95	4.12*
45.1	45.3	30.63	7.24	23.98	3.72*
50.2	50.4	30.65	7.25	23.99	3.44*
60.0	60.3	30.68	7.15	24.03	3.91*
70.1	70.4	30.77	7.47	24.06	2.99*
80.2	80.5	30.82	7.46	24.10	2.08*
90.2	90.6	30.85	7.43	24.13	2.84*
100.1	100.6	30.86	7.46	24.13	2.59*
110.2	110.7	30.94	7.62	24.17	2.60*
120.2	120.8	30.90	7.33	24.18	3.30*
130.0	130.6	30.92	7.34	24.20	1.74
140.2	140.9	30.94	7.38	24.21	2.65*
150.1	150.8	30.96	7.43	24.22	2.05*
160.2	161.0	30.98	7.41	24.23	2.99*
170.1	171.0	31.06	7.74	24.25	4.88*
180.1	180.9	31.06	7.62	24.27	2.27*
190.3	191.2	31.06	7.60	24.27	+
200.1	201.1	31.09	7.58	24.29	2.07*
210.0	211.0	31.11	7.61	24.30	1.66*
220.1	221.2	31.11	7.60	24.31	1.77*
230.1	231.2	31.13	7.62	24.32	1.58*
240.1	241.3	31.13	7.63	24.32	1.40*
250.2	251.4	31.14	7.61	24.33	1.59*
260.1	261.4	31.14	7.60	24.33	1.38*
270.1	271.4	31.15	7.62	24.34	1.15*
280.1	281.5	31.17	7.65	24.35	1.45*
290.0	291.4	31.19	7.71	24.35	1.65*
300.2	301.7	31.20	7.77	24.36	1.52*
310.2	311.7	31.21	7.79	24.36	1.28*
320.1	321.6	31.23	7.83	24.37	1.27*
330.0	331.6	31.23	7.84	24.37	1.24*
340.1	341.8	31.23	7.85	24.37	1.00*
360.2	361.9	31.24	7.86	24.37	.91*
380.2	382.1	31.25	7.87	24.38	.99*
400.1	402.0	31.25	7.87	24.38	.87*

MAX DEPTH 415.2



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 52.40  
 DATE 13/12/78  
 TIME (PST) 0309

TAPE CZ0/78/10- 4  
 LONG W125 38.50  
 PASS NO. 27  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.58	5.32	21.80	.57
2.1	2.1	27.72	5.32	21.92	11.75
5.0	5.0	28.88	5.85	22.77	28.81
10.0	10.1	29.94	7.02	23.47	25.13
15.0	15.1	30.26	7.23	23.69	11.41
20.0	20.1	30.36	7.38	23.75	5.84*
25.1	25.2	30.49	7.67	23.82	6.56*
30.1	30.3	30.61	7.69	23.90	5.56*
35.2	35.4	30.66	7.64	23.95	4.79*
40.1	40.3	30.67	7.46	23.98	4.35*
45.1	45.3	30.71	7.59	24.00	4.14*
50.2	50.4	30.75	7.65	24.02	4.30*
60.2	60.5	30.84	7.83	24.06	3.61*
70.1	70.4	30.87	7.80	24.09	2.72*
80.2	80.6	30.90	7.73	24.12	2.32*
90.2	90.6	30.91	7.73	24.14	2.03*
100.2	100.6	30.93	7.71	24.15	2.56*
110.1	110.6	30.96	7.73	24.17	2.89*
120.2	120.7	31.03	7.94	24.19	2.28*
130.2	130.8	31.04	7.97	24.20	1.80*
140.0	140.7	31.06	7.99	24.21	2.10*
150.2	150.9	31.07	7.96	24.23	2.33*
160.2	161.0	31.09	7.92	24.24	2.05*
170.2	171.0	31.10	7.91	24.25	2.26*
180.2	181.1	31.10	7.83	24.27	1.52*
190.2	191.1	31.11	7.84	24.28	1.61*
200.2	201.1	31.11	7.77	24.29	1.46*
210.1	211.2	31.11	7.76	24.29	1.85*
220.1	221.2	31.11	7.67	24.30	2.31*
230.1	231.2	31.14	7.67	24.32	1.78*
240.1	241.2	31.14	7.65	24.32	1.50*
250.3	251.5	31.14	7.64	24.32	1.82*
260.0	261.3	31.15	7.64	24.33	1.04*
270.0	271.3	31.16	7.65	24.34	1.40*
280.1	281.5	31.18	7.71	24.35	1.26*
290.1	291.5	31.19	7.75	24.35	1.41*
300.2	301.6	31.21	7.80	24.35	1.37*
310.1	311.6	31.22	7.82	24.36	1.15*
320.0	321.6	31.23	7.83	24.37	1.22*
330.2	331.8	31.24	7.84	24.37	1.06*
340.1	341.8	31.24	7.85	24.37	.77*
360.2	361.9	31.24	7.85	24.37	.87*
380.2	382.1	31.25	7.86	24.38	.85*
400.1	402.1	31.25	7.86	24.38	.85*
420.2	422.2	31.25	7.86	24.38	.83*
440.1	442.3	31.25	7.87	24.38	.90*
460.1	462.3	31.25	7.87	24.38	.53*
480.1	482.4	31.26	7.87	24.38	

MAX DEPTH 483.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 47.90  
 DATE 13/12/78  
 TIME (PST) 0214

TAPE CZ0/78/10- 5  
 LONG W125 37.00  
 PASS NO. 25  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.21	5.12	22.33	11.47
2.1	2.1	28.14	5.44	22.24	6.34*
5.2	5.2	28.32	5.56	22.37	16.07
10.1	10.1	29.65	6.73	23.27	20.67
15.1	15.2	30.25	7.45	23.65	9.51
20.1	20.2	30.36	7.59	23.72	6.12
25.0	25.2	30.55	7.73	23.85	7.56
30.3	30.4	30.65	7.97	23.90	4.65*
35.0	35.2	30.68	7.98	23.92	4.91
40.2	40.4	30.72	7.92	23.96	4.44*
45.2	45.4	30.77	8.05	23.98	3.75*
50.2	50.4	30.77	7.97	23.99	4.63*
60.0	60.3	30.84	7.88	24.06	3.35*
70.2	70.5	30.89	7.83	24.10	2.41*
80.2	80.6	30.92	7.93	24.11	2.22*
90.1	90.5	30.96	8.00	24.13	2.90*
100.0	100.5	30.99	7.99	24.16	2.59*
110.1	110.6	31.01	7.98	24.18	2.68*
120.0	120.6	31.07	8.17	24.19	6.22*
130.1	130.8	31.07	8.13	24.20	1.98*
140.0	140.7	31.08	8.07	24.22	1.76*
150.0	150.8	31.12	7.96	24.27	2.05*
160.2	161.0	31.12	7.98	24.26	2.29*
170.1	170.9	31.14	7.97	24.28	1.81*
180.2	181.1	31.14	7.92	24.28	1.33*
190.2	191.2	31.14	7.91	24.29	1.52*
200.1	201.1	31.15	7.89	24.30	1.80*
210.1	211.2	31.15	7.85	24.30	1.51*
220.2	221.3	31.15	7.79	24.31	1.37*
230.2	231.3	31.15	7.72	24.32	1.41*
240.2	241.4	31.15	7.69	24.33	1.21*
250.2	251.4	31.15	7.67	24.33	1.04*
260.2	261.5	31.16	7.67	24.33	1.23*
270.0	271.4	31.17	7.70	24.34	1.23*
280.1	281.5	31.18	7.73	24.35	.94*
290.1	291.5	31.19	7.74	24.35	.92*
300.1	301.6	31.19	7.75	24.35	1.19*
310.2	311.7	31.20	7.78	24.36	1.12*
320.2	321.8	31.21	7.79	24.36	.89*
330.0	331.6	31.21	7.81	24.36	1.19*
340.2	341.8	31.22	7.82	24.37	1.02*
360.1	361.9	31.23	7.84	24.37	1.20*
380.2	382.1	31.24	7.85	24.38	.86*
400.2	402.1	31.25	7.85	24.38	.94*
420.1	422.2	31.25	7.86	24.38	.88*
440.1	442.3	31.25	7.86	24.38	.68*
460.2	462.5	31.25	7.86	24.38	.49*
480.1	482.4	31.25	7.87	24.38	.75*

MAX DEPTH 499.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 45.10  
 DATE 13/12/78  
 TIME (PST) 0124

TAPE CZ0/78/10- 6  
 LONG W125 41.00  
 PASS NO. 23  
 STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.28	5.43	22.35	14.31
2.1	2.1	28.51	5.30	22.54	10.52
5.2	5.2	28.78	5.98	22.69	22.18
10.2	10.2	29.35	6.64	23.05	19.54
15.0	15.1	30.24	7.62	23.62	13.26
20.1	20.2	30.41	7.81	23.73	7.25*
25.1	25.2	30.49	7.91	23.78	5.32
30.1	30.2	30.52	7.93	23.80	5.07*
35.1	35.3	30.55	7.97	23.82	5.04
40.1	40.3	30.62	7.94	23.88	5.07*
45.1	45.3	30.68	8.05	23.91	5.04*
50.2	50.4	30.75	8.11	23.96	3.83*
60.0	60.3	30.78	8.11	23.98	2.57*
70.2	70.5	30.81	8.09	24.00	3.19*
80.2	80.6	30.85	8.02	24.05	4.57
90.1	90.5	30.90	8.02	24.09	3.28*
100.2	100.7	30.97	8.15	24.13	3.33*
110.2	110.7	31.00	8.18	24.14	2.19*
120.2	120.8	31.04	8.20	24.16	2.91*
130.2	130.8	31.07	8.21	24.19	2.95*
140.1	140.7	31.08	8.21	24.20	+
150.1	150.8	31.10	8.20	24.22	2.34*
160.2	160.9	31.11	8.19	24.23	1.63*
170.0	170.8	31.13	8.17	24.24	2.28*
180.1	181.0	31.14	8.16	24.25	1.78*
190.2	191.1	31.15	8.14	24.26	1.77*
200.2	201.2	31.15	8.12	24.26	.99*
210.0	211.0	31.15	8.05	24.28	1.27*
220.2	221.2	31.14	7.88	24.30	2.07*
230.1	231.2	31.15	7.86	24.30	1.72*
240.2	241.4	31.16	7.83	24.31	.73*
250.0	251.2	31.15	7.75	24.32	.78*
260.2	261.4	31.16	7.76	24.32	1.82*
270.1	271.4	31.16	7.76	24.33	1.58*
280.2	281.6	31.17	7.75	24.33	1.15*
290.1	291.5	31.18	7.75	24.34	.99*
300.1	301.6	31.18	7.76	24.34	1.42*
310.2	311.7	31.19	7.78	24.35	1.76*
320.0	321.6	31.20	7.79	24.35	1.62*
330.1	331.7	31.20	7.80	24.35	1.20*
340.1	341.7	31.22	7.81	24.36	1.39*
360.2	362.0	31.23	7.83	24.37	1.14*
380.0	381.9	31.23	7.84	24.37	.73*
400.2	402.2	31.24	7.84	24.37	.94*
420.1	422.1	31.24	7.85	24.37	.62*
440.0	442.2	31.24	7.85	24.37	.77*
460.2	462.5	31.25	7.86	24.38	.75*
480.2	482.6	31.24	7.86	24.38	.92*

MAX DEPTH 495.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 41.90  
 DATE 13/12/78  
 TIME (PST) 0035

TAPE CZ0/78/10- 7  
 LONG W125 43.50  
 PASS NO. 21  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.42	6.71	23.10	6.30
2.0	2.0	29.40	6.87	23.06	18.30
5.1	5.1	29.76	7.05	23.32	6.45
10.2	10.2	29.79	7.08	23.34	6.45*
15.1	15.2	30.01	7.25	23.49	13.49
20.0	20.1	30.50	7.80	23.80	11.21
25.2	25.3	30.63	7.95	23.89	6.48*
30.1	30.2	30.66	7.98	23.90	3.18*
35.1	35.2	30.67	7.99	23.91	3.18*
40.2	40.4	30.68	8.00	23.92	3.30*
45.2	45.4	30.72	8.01	23.94	3.94*
50.2	50.4	30.75	8.03	23.97	4.34*
60.2	60.4	30.82	8.08	24.01	3.24*
70.2	70.5	30.87	8.12	24.04	2.41*
80.2	80.6	30.87	8.13	24.04	1.30*
90.2	90.7	30.90	8.14	24.07	4.37*
100.1	100.5	30.98	8.19	24.12	3.21
110.1	110.6	31.01	8.19	24.15	3.18*
120.1	120.7	31.04	8.20	24.17	1.99*
130.1	130.7	31.05	8.20	24.17	2.38*
140.1	140.8	31.07	8.20	24.20	2.34*
150.1	150.8	31.11	8.19	24.22	3.58*
160.2	161.0	31.14	8.17	24.25	2.93*
170.2	171.0	31.16	8.15	24.27	2.34*
180.1	181.0	31.17	8.12	24.28	1.29*
190.2	191.1	31.17	8.09	24.29	1.56*
200.2	201.1	31.18	8.06	24.30	1.48*
210.2	211.2	31.18	8.04	24.30	1.54*
220.0	221.1	31.18	7.99	24.31	1.89*
230.1	231.2	31.19	7.95	24.32	1.39*
240.2	241.4	31.19	7.94	24.32	1.02*
250.2	251.4	31.19	7.94	24.32	1.20*
260.1	261.3	31.20	7.92	24.33	1.39*
270.1	271.4	31.20	7.92	24.33	1.20*
280.1	281.5	31.20	7.88	24.34	1.61*
290.1	291.5	31.21	7.89	24.35	1.58*
300.1	301.6	31.21	7.88	24.35	1.14*
310.1	311.7	31.22	7.87	24.35	1.03*
320.0	321.6	31.22	7.86	24.36	1.08*
330.1	331.7	31.22	7.85	24.36	1.17*
340.0	341.7	31.23	7.85	24.36	.98*
360.1	361.9	31.23	7.84	24.37	.95*
380.0	381.9	31.23	7.85	24.37	.57*
400.1	402.1	31.24	7.84	24.38	.72*
420.1	422.1	31.24	7.85	24.37	1.10*

MAX DEPTH 439.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 41.70  
 DATE 13/12/78  
 TIME (PST) 0004

TAPE C20/78/10- 8  
 LONG W125 46.60  
 PASS NO. 19  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.76	6.96	23.33	13.96
2.1	2.1	29.76	6.96	23.33	4.17*
5.1	5.2	29.77	7.11	23.32	10.46
10.0	10.1	30.28	7.60	23.66	6.96
15.3	15.3	30.46	7.80	23.77	6.37
20.2	20.3	30.54	7.83	23.83	6.87*
25.1	25.3	30.67	7.97	23.92	5.18
30.1	30.3	30.69	7.98	23.93	4.41*
35.1	35.3	30.75	8.03	23.97	5.15
40.2	40.4	30.81	8.08	24.00	5.82*
45.0	45.2	30.89	8.12	24.06	5.16*
50.1	50.3	30.92	8.13	24.08	3.79*
60.1	60.4	30.94	8.15	24.10	1.97*
70.1	70.4	30.95	8.14	24.11	1.94*
80.2	80.5	30.97	8.14	24.12	2.69*
90.1	90.5	31.01	8.15	24.15	3.15*
100.1	100.5	31.06	8.16	24.19	2.61*
110.2	110.7	31.08	8.15	24.21	1.90*
120.2	120.8	31.09	8.16	24.21	1.52*
130.1	130.7	31.10	8.16	24.22	1.20*
140.0	140.7	31.11	8.16	24.23	1.21*
150.2	151.0	31.12	8.16	24.23	1.27*
160.2	160.9	31.12	8.16	24.24	2.36*
170.1	170.9	31.15	8.15	24.26	2.35*
180.2	181.1	31.16	8.15	24.27	4.09
190.1	191.0	31.18	8.12	24.29	1.38*
200.2	201.1	31.17	8.10	24.29	1.10*
210.1	211.1	31.18	8.09	24.29	1.21*
220.2	221.2	31.18	8.09	24.30	1.60*
230.2	231.3	31.18	8.01	24.31	2.45*
240.2	241.3	31.19	7.89	24.33	1.83*
250.1	251.3	31.20	7.88	24.34	1.14*
260.1	261.4	31.20	7.86	24.34	1.26*
270.2	271.5	31.21	7.84	24.35	1.27*
280.2	281.6	31.21	7.84	24.35	1.06*
290.1	291.5	31.21	7.84	24.35	+
300.1	301.5	31.21	7.84	24.35	+
310.0	311.5	31.22	7.84	24.36	.57*
320.2	321.8	31.22	7.83	24.36	+
330.1	331.7	31.21	7.84	24.35	1.13*
340.1	341.8	31.22	7.84	24.36	1.69*
360.1	361.9	31.23	7.85	24.37	+

MAX DEPTH 362.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 41.60  
 DATE 12/12/78  
 TIME (PST) 2337

TAPE CZ0/78/10- 9  
 LONG W125 49.30  
 PASS NO. 17  
 STN: 10 - TOM. IS.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.86	7.09	23.39	15.59*
2.0	2.0	30.17	7.20	23.62	12.91*
5.0	5.0	30.16	7.37	23.60	8.88*
10.0	10.1	30.25	7.46	23.65	6.33
15.2	15.2	30.47	7.68	23.80	11.50
20.1	20.2	30.69	7.95	23.93	4.54*
25.0	25.2	30.74	8.01	23.96	4.74*
30.1	30.2	30.79	8.07	23.99	4.85*
35.2	35.4	30.83	8.09	24.02	4.96*
40.0	40.2	30.90	8.13	24.07	3.85*
45.1	45.3	30.91	8.13	24.07	2.73*
50.0	50.3	30.93	8.14	24.09	2.90*
60.2	60.5	30.96	8.15	24.12	3.01*
70.0	70.3	30.99	8.13	24.14	2.35*
80.1	80.5	31.02	8.12	24.16	2.39*
90.2	90.7	31.06	8.14	24.20	2.72*
100.1	100.6	31.11	8.16	24.22	2.80*
110.1	110.6	31.14	8.17	24.25	2.46*
120.1	120.7	31.15	8.16	24.26	1.52*
130.1	130.8	31.16	8.15	24.27	1.88*
140.1	140.8	31.18	8.13	24.29	1.82*
150.2	150.9	31.18	8.13	24.29	1.18*
160.2	161.0	31.19	8.12	24.29	1.59*
170.1	170.9	31.20	8.09	24.31	1.59*
180.2	181.1	31.20	8.08	24.31	1.26*
190.2	191.1	31.20	8.04	24.32	1.33*
200.1	201.1	31.20	8.02	24.32	1.36*
210.2	211.3	31.21	8.00	24.33	1.39*
220.2	221.2	31.21	7.97	24.33	1.24*
230.1	231.3	31.21	7.92	24.34	3.82
240.2	241.4	31.20	7.94	24.33	.53*
250.0	251.2	31.21	7.91	24.34	.79*
260.1	261.4	31.21	7.90	24.34	.94*
270.1	271.4	31.21	7.90	24.34	.54*
280.2	281.5	31.21	7.90	24.34	+
290.2	291.6	31.21	7.90	24.34	.93*
300.2	301.6	31.21	7.89	24.34	+
310.0	311.5	31.21	7.89	24.35	1.10*
320.2	321.7	31.22	7.90	24.35	+
330.0	331.7	31.22	7.88	24.35	1.17*

MAX DEPTH 334.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 41.10  
 DATE 12/12/78  
 TIME (PST) 2309

TAPE C20/78/10- 10  
 LONG W125 51.90  
 PASS NO. 15

STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.25	7.39	23.66	+
2.0	2.0	30.25	7.39	23.66	.07*
5.2	5.2	30.25	7.41	23.66	.17*
10.0	10.1	30.25	7.41	23.66	1.97*
15.2	15.3	30.26	7.42	23.66	3.77*
20.1	20.2	30.34	7.58	23.71	5.77*
25.1	25.2	30.44	7.73	23.76	7.78*
30.0	30.2	30.70	8.02	23.93	5.01
35.2	35.3	30.75	8.06	23.96	5.77
40.0	40.2	30.78	8.08	23.98	1.93*
45.1	45.3	30.78	8.08	23.98	1.54*
50.2	50.4	30.78	8.09	23.98	2.07*
60.2	60.5	30.81	8.10	24.00	2.02*
70.1	70.4	30.86	8.14	24.03	3.81*
80.2	80.6	30.90	8.15	24.07	2.45*
90.1	90.5	30.92	8.14	24.08	3.64*
100.1	100.5	30.98	8.13	24.13	2.46*
110.1	110.6	31.00	8.15	24.15	2.78*
120.1	120.6	31.04	8.14	24.17	3.08*
130.2	130.8	31.07	8.10	24.20	2.52*
140.2	140.9	31.10	8.12	24.23	3.12*
150.2	151.0	31.14	8.15	24.25	1.81*
160.1	160.9	31.14	8.14	24.25	1.69*
170.2	171.0	31.15	8.13	24.27	2.13*
180.1	181.0	31.18	8.12	24.29	3.51*
190.2	191.1	31.18	8.12	24.29	1.30*
200.2	201.2	31.19	8.10	24.30	1.61*
210.2	211.2	31.19	8.09	24.30	1.86*
220.3	221.3	31.20	8.04	24.32	1.65*
230.2	231.3	31.20	8.03	24.32	1.30*
240.1	241.3	31.21	8.01	24.33	1.40*
250.1	251.3	31.22	7.99	24.34	1.28*
260.1	261.4	31.22	7.97	24.34	1.32*
270.0	271.3	31.22	7.96	24.35	.56*
280.1	281.5	31.22	7.94	24.34	.29*
290.2	291.6	31.22	7.93	24.34	.75*
300.1	301.6	31.22	7.93	24.35	.85*
310.0	311.6	31.22	7.92	24.35	.83*
320.2	321.8	31.23	7.92	24.35	.90*
330.0	331.7	31.22	7.92	24.35	1.17*

MAX DEPTH 330.1

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 40.70  
 DATE 12/12/78  
 TIME (PST) 2238

TAPE CZ0/78/10- 11  
 LONG W125 54.40  
 PASS NO. 13  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.25	7.43	23.66	+
2.0	2.0	30.25	7.43	23.66	.26*
5.0	5.1	30.25	7.43	23.66	.55
10.2	10.2	30.25	7.44	23.66	4.36
15.0	15.1	30.31	7.51	23.69	5.81
20.1	20.2	30.36	7.61	23.72	7.51
25.1	25.2	30.51	7.89	23.79	7.35*
30.1	30.3	30.64	7.98	23.89	6.21
35.1	35.2	30.67	8.01	23.90	4.61
40.2	40.4	30.69	8.02	23.92	3.58*
45.1	45.3	30.72	8.05	23.94	3.10*
50.2	50.4	30.74	8.07	23.95	2.77*
60.0	60.3	30.77	8.09	23.98	2.61*
70.1	70.4	30.83	8.12	24.02	4.95*
80.2	80.6	30.85	8.09	24.04	2.27*
90.0	90.4	30.86	8.07	24.05	3.19*
100.2	100.6	30.94	8.12	24.10	4.08
110.1	110.6	30.99	8.09	24.14	2.87*
120.1	120.7	31.00	8.12	24.15	2.41*
130.2	130.8	31.02	8.11	24.17	2.74*
140.2	140.8	31.05	8.10	24.19	2.18*
150.1	150.8	31.08	8.11	24.21	2.23*
160.2	161.0	31.09	8.11	24.22	1.73*
170.0	170.8	31.10	8.10	24.23	1.86*
180.2	181.1	31.10	8.11	24.23	.82*
190.1	191.0	31.11	8.11	24.24	1.11*
200.2	201.1	31.11	8.10	24.24	1.69*
210.2	211.2	31.14	8.11	24.26	2.19*
220.1	221.1	31.17	8.10	24.28	2.05*
230.1	231.2	31.17	8.10	24.29	1.19*
240.0	241.2	31.17	8.10	24.29	1.31*
250.2	251.4	31.18	8.09	24.29	1.24*
260.2	261.5	31.19	8.08	24.30	1.43*
270.1	271.5	31.19	8.08	24.31	1.03*
280.1	281.4	31.19	8.07	24.31	1.02*
290.1	291.5	31.21	8.03	24.33	2.36*
300.1	301.6	31.21	8.02	24.33	1.22*
310.1	311.6	31.22	8.02	24.33	1.29*
320.2	321.8	31.22	7.98	24.34	1.33*
330.1	331.7	31.22	7.97	24.34	1.16*
340.2	341.9	31.22	7.95	24.34	.80*
360.1	361.9	31.23	7.93	24.35	1.20*
380.3	382.1	31.22	7.92	24.35	.95*

MAX DEPTH 389.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 12/12/78  
 TIME (PST) 2210

TAPE CZ0/78/10- 12  
 LONG W125 57.20  
 PASS NO. 11  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.19	7.29	23.63	+
2.1	2.1	30.20	7.27	23.64	.74*
5.2	5.2	30.20	7.27	23.63	1.79
10.1	10.2	30.26	7.38	23.67	6.53
15.0	15.1	30.38	7.54	23.75	7.69
20.1	20.2	30.43	7.53	23.78	3.31*
25.2	25.3	30.44	7.53	23.79	1.88*
30.1	30.2	30.44	7.53	23.80	2.39*
35.2	35.4	30.46	7.54	23.81	2.58*
40.1	40.2	30.49	7.56	23.83	2.20*
45.2	45.4	30.50	7.57	23.83	2.28*
50.2	50.4	30.50	7.57	23.84	3.18*
60.1	60.3	30.62	7.70	23.91	7.80*
70.0	70.3	30.65	7.73	23.93	2.53*
80.1	80.5	30.68	7.76	23.95	3.34*
90.2	90.6	30.83	7.88	24.05	6.48
100.2	100.6	30.76	7.84	24.00	+
110.3	110.8	30.95	7.98	24.13	4.88*
120.2	120.7	31.02	8.03	24.17	3.35*
130.2	130.8	31.06	8.09	24.20	3.36*
140.2	140.8	31.09	8.10	24.22	2.81
150.0	150.7	31.09	8.10	24.22	+
160.1	160.9	31.11	8.12	24.23	1.96*
170.1	170.9	31.15	8.12	24.26	3.93
180.2	181.0	31.18	8.10	24.29	2.47*
190.0	190.9	31.21	8.06	24.32	1.83*
200.2	201.2	31.21	8.03	24.33	1.81*
210.1	211.1	31.22	8.01	24.33	1.14*
220.1	221.2	31.22	7.98	24.34	2.05*

MAX DEPTH 229.6



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 21 KNIGHT INLET 1978

LAT N50 40.60

DATE 12/12/78

TIME (PST) 2149

TAPE CZ0/78/10- 13

LONG W125 59.50

PASS NO. 9

STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.26	7.31	23.68	11.12*
2.0	2.0	30.36	7.46	23.74	1.03
5.0	5.0	30.26	7.30	23.68	8.68*
10.1	10.1	30.21	7.39	23.63	+
15.0	15.1	30.39	7.42	23.76	3.80*
20.1	20.2	30.43	7.52	23.79	3.60
25.1	25.2	30.67	7.79	23.93	8.44
30.0	30.2	30.88	7.93	24.08	12.83
35.1	35.2	31.00	8.06	24.16	4.06*
40.1	40.3	31.01	8.06	24.16	2.51*
45.0	45.2	31.02	8.07	24.17	3.35*
50.0	50.3	30.97	8.02	24.14	+
60.0	60.3	31.02	8.05	24.17	8.05
70.1	70.4	31.19	8.19	24.28	3.86*
80.0	80.4	31.35	8.30	24.40	4.52*

MAX DEPTH 84.5

CRUISE NO. 21 KNIGHT INLET 1978

LAT N50 39.90

DATE 12/12/78

TIME (PST) 2119

TAPE CZ0/78/10- 14

LONG W126 4.20

PASS NO. 7

STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.48	7.50	23.83	7.12
2.1	2.1	30.48	7.50	23.83	2.35*
5.2	5.2	30.55	7.57	23.87	6.10
10.2	10.2	30.65	7.73	23.93	5.07
15.1	15.1	30.71	7.81	23.96	5.17*
20.0	20.1	30.78	7.88	24.01	5.31*
25.0	25.2	30.81	7.91	24.03	5.22*
30.0	30.2	30.89	7.96	24.08	5.12*
35.1	35.3	30.92	8.01	24.10	5.00*
40.1	40.3	30.99	8.06	24.15	4.04*
45.1	45.3	31.01	8.07	24.16	2.40*
50.1	50.3	31.01	8.07	24.17	2.26*
60.2	60.5	31.07	8.11	24.20	3.38*
70.1	70.4	31.07	8.09	24.21	3.46*
80.0	80.4	31.24	8.21	24.32	5.63
90.1	90.5	31.35	8.22	24.40	2.74*
100.0	100.5	31.38	8.25	24.43	2.78*
110.0	110.6	31.39	8.28	24.43	1.80*
120.1	120.7	31.42	8.32	24.45	3.43*
130.1	130.7	31.45	8.37	24.47	2.84*
140.2	140.9	31.48	8.31	24.50	2.28*
150.1	150.8	31.51	8.33	24.52	3.71*
160.2	161.0	31.51	8.36	24.51	1.03*
170.0	170.9	31.51	8.36	24.51	+
180.0	180.9	31.52	8.34	24.53	+

MAX DEPTH 180.8



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 39.20  
 DATE 12/12/78  
 TIME (PST) 2029

TAPE CZ0/78/10- 15  
 LONG W126 12.50  
 PASS NO. 5  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.61	7.57	23.92	.80*
2.1	2.1	30.62	7.57	23.93	.37*
5.2	5.2	30.61	7.59	23.92	.92*
10.0	10.1	30.63	7.60	23.93	1.03*
15.1	15.2	30.64	7.65	23.94	1.14*
20.0	20.1	30.65	7.65	23.94	4.49
25.2	25.3	30.69	7.70	23.97	4.39*
30.1	30.3	30.74	7.72	24.00	7.19
35.1	35.3	30.89	7.96	24.09	8.64*
40.0	40.2	30.93	7.97	24.11	4.10
45.2	45.4	30.95	7.97	24.13	4.65
50.1	50.3	30.97	7.98	24.15	+
60.0	60.3	31.10	8.00	24.24	+
70.1	70.5	31.20	8.02	24.32	6.99
80.1	80.5	31.35	8.13	24.42	3.80*
90.1	90.5	31.35	8.13	24.42	1.74*
100.0	100.5	31.37	8.14	24.44	3.16*
110.1	110.7	31.42	8.14	24.47	2.45*
120.2	120.8	31.43	8.15	24.48	2.17*
130.2	130.8	31.45	8.15	24.50	2.14*
140.1	140.8	31.47	8.17	24.51	1.83*
150.0	150.8	31.49	8.18	24.53	1.42*
160.1	161.0	31.50	8.18	24.53	1.00*
170.0	170.9	31.50	8.19	24.53	.80*
180.1	181.0	31.51	8.19	24.54	1.60*
190.1	191.1	31.52	8.17	24.55	+

MAX DEPTH 196.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO. 21 KNIGHT INLET 1978  
 LAT N50 38.50  
 DATE 12/12/78  
 TIME (PST) 1951

TAPE CZO/78/10- 16  
 LONG W126 17.30  
 PASS NO. 3  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.59	7.41	23.92	8.79*
2.1	2.1	30.58	7.41	23.92	.83
5.2	5.2	30.58	7.44	23.91	+
10.2	10.2	30.59	7.43	23.92	4.14
15.0	15.1	30.61	7.51	23.93	3.12*
20.1	20.2	30.62	7.53	23.94	2.88*
25.1	25.3	30.63	7.55	23.94	3.80*
30.1	30.3	30.70	7.64	23.98	4.14
35.1	35.3	30.71	7.66	23.99	4.52*
40.0	40.2	30.79	7.70	24.04	5.71*
45.1	45.3	30.84	7.77	24.08	6.36*
50.2	50.4	30.95	7.86	24.15	6.60
60.2	60.5	31.13	7.99	24.27	7.06*
70.0	70.4	31.23	8.05	24.34	4.94*
80.1	80.5	31.30	8.03	24.39	2.97*
90.2	90.6	31.31	8.04	24.40	2.43*
100.0	100.5	31.40	8.06	24.47	2.45*
110.3	110.9	31.41	8.12	24.47	4.47
120.1	120.7	31.46	8.15	24.51	2.06*
130.3	131.0	31.48	8.13	24.52	1.89*
140.2	140.9	31.48	8.13	24.52	+
150.1	150.8	31.49	8.12	24.53	.65*
160.1	160.9	31.49	8.13	24.53	.83*
170.1	170.9	31.50	8.12	24.54	1.42*
180.1	181.0	31.51	8.13	24.55	1.13*
190.0	191.0	31.51	8.13	24.55	1.75*
200.2	201.2	31.53	8.12	24.56	1.03*
210.0	211.1	31.54	8.13	24.57	1.41*
220.1	221.2	31.54	8.13	24.57	+
230.2	231.4	31.54	8.13	24.57	1.19*
240.0	241.3	31.54	8.13	24.57	+

MAX DEPTH 242.8

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO. 21 KNIGHT INLET 1978

LAT N50 38.10

DATE 12/12/78

TIME (PST) 1857

TAPE CZ0/78/10- 17

LONG W126 25.20

PASS NO. 1

STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.64	7.50	23.96	1.19*
2.1	2.1	30.66	7.51	23.96	.89*
5.0	5.0	30.67	7.52	23.97	2.27*
10.1	10.2	30.67	7.53	23.97	3.35*
15.0	15.1	30.69	7.55	23.98	4.43*
20.1	20.2	30.78	7.63	24.04	7.33
25.1	25.3	30.89	7.68	24.13	4.54
30.1	30.2	30.92	7.69	24.15	4.37*
35.2	35.3	30.97	7.77	24.18	4.09*
40.0	40.2	31.01	7.77	24.21	3.75*
45.1	45.4	31.03	7.78	24.22	3.50*
50.0	50.3	31.11	7.83	24.27	3.43*
60.2	60.5	31.21	7.98	24.33	8.43*
70.1	70.4	31.22	8.00	24.34	2.39*
80.2	80.6	31.29	8.05	24.38	2.76*
90.0	90.5	31.31	8.07	24.40	1.60*
100.1	100.6	31.32	8.09	24.40	2.85*
110.1	110.7	31.38	8.15	24.44	3.83*
120.1	120.7	31.43	8.16	24.48	4.69
130.2	130.8	31.45	8.18	24.50	1.07*
140.0	140.7	31.46	8.18	24.50	.83*
150.2	151.0	31.47	8.18	24.50	1.81*
160.1	160.9	31.46	8.18	24.50	+
170.2	171.0	31.50	8.17	24.53	2.67*
180.1	181.0	31.50	8.17	24.53	1.26*
190.2	191.2	31.51	8.17	24.54	1.72*
200.2	201.2	31.52	8.17	24.55	.87*
210.0	211.1	31.52	8.17	24.54	.39*
220.2	221.3	31.52	8.17	24.55	.62*
230.0	231.2	31.52	8.18	24.55	.85*
240.0	241.2	31.52	8.18	24.54	+
250.2	251.4	31.52	8.18	24.55	+

MAX DEPTH 252.5

## APPENDIX





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO.141 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 19/ 4/78  
 TIME (PST) 2134

TAPE CZ0/78/ 4- 50  
 LONG W126 1.95  
 PASS NO. 39  
 STN: ACOUSTIC 1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.86	7.42	22.57	27.12
2.1	2.1	29.50	7.44	23.07	25.64
5.1	5.2	29.93	7.20	23.44	9.98
10.1	10.2	30.24	7.15	23.69	6.17*
15.0	15.1	30.29	7.13	23.73	6.76*
20.1	20.2	30.38	7.09	23.80	7.84
25.1	25.2	30.43	7.07	23.85	5.59*
30.1	30.2	30.46	7.06	23.87	3.89*
35.0	35.2	30.50	7.04	23.91	3.45*
40.1	40.3	30.52	7.04	23.92	2.81*
45.1	45.3	30.54	7.00	23.94	2.03*
50.1	50.4	30.55	7.00	23.95	1.61*
60.2	60.4	30.58	7.05	23.97	1.98*
70.1	70.5	30.59	7.10	23.97	1.85*
80.2	80.6	30.60	7.12	23.97	2.09*
90.2	90.6	30.63	7.16	23.99	2.53*
100.0	100.5	30.67	7.24	24.01	2.34*
110.2	110.7	30.70	7.30	24.03	2.07*
120.1	120.6	30.72	7.32	24.04	1.76*
130.1	130.7	30.74	7.35	24.05	.00

MAX DEPTH 135.3

CRUISE NO.141 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 19/ 4/78  
 TIME (PST) 0316

TAPE CZ0/78/ 4- 51  
 LONG W125 58.85  
 PASS NO. 41  
 STN: ACOUSTIC 5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	25.80	7.96	20.11	13.74
2.0	2.0	26.54	7.86	20.70	43.14
5.0	5.0	29.29	7.33	22.92	26.96
10.0	10.0	29.61	7.27	23.18	10.84
15.1	15.2	29.93	7.21	23.44	15.40
20.1	20.1	30.16	7.16	23.62	8.97
25.1	25.2	30.28	7.13	23.72	4.76
30.1	30.2	30.31	7.12	23.74	3.42*
35.1	35.3	30.32	7.12	23.75	2.81*
40.2	40.4	30.33	7.11	23.76	4.88*
45.0	45.2	30.40	7.09	23.82	6.38
50.1	50.3	30.50	7.08	23.90	6.44*
60.1	60.3	30.56	7.06	23.95	4.37
70.0	70.4	30.63	7.06	24.00	4.25
80.1	80.5	30.70	7.14	24.05	3.92*
90.2	90.6	30.73	7.14	24.07	2.29*
100.1	100.6	30.73	7.05	24.09	2.90*
110.0	110.6	30.77	7.03	24.12	3.21*
120.1	120.6	30.78	7.04	24.13	2.26*
130.2	130.8	30.81	7.07	24.14	

MAX DEPTH 137.9

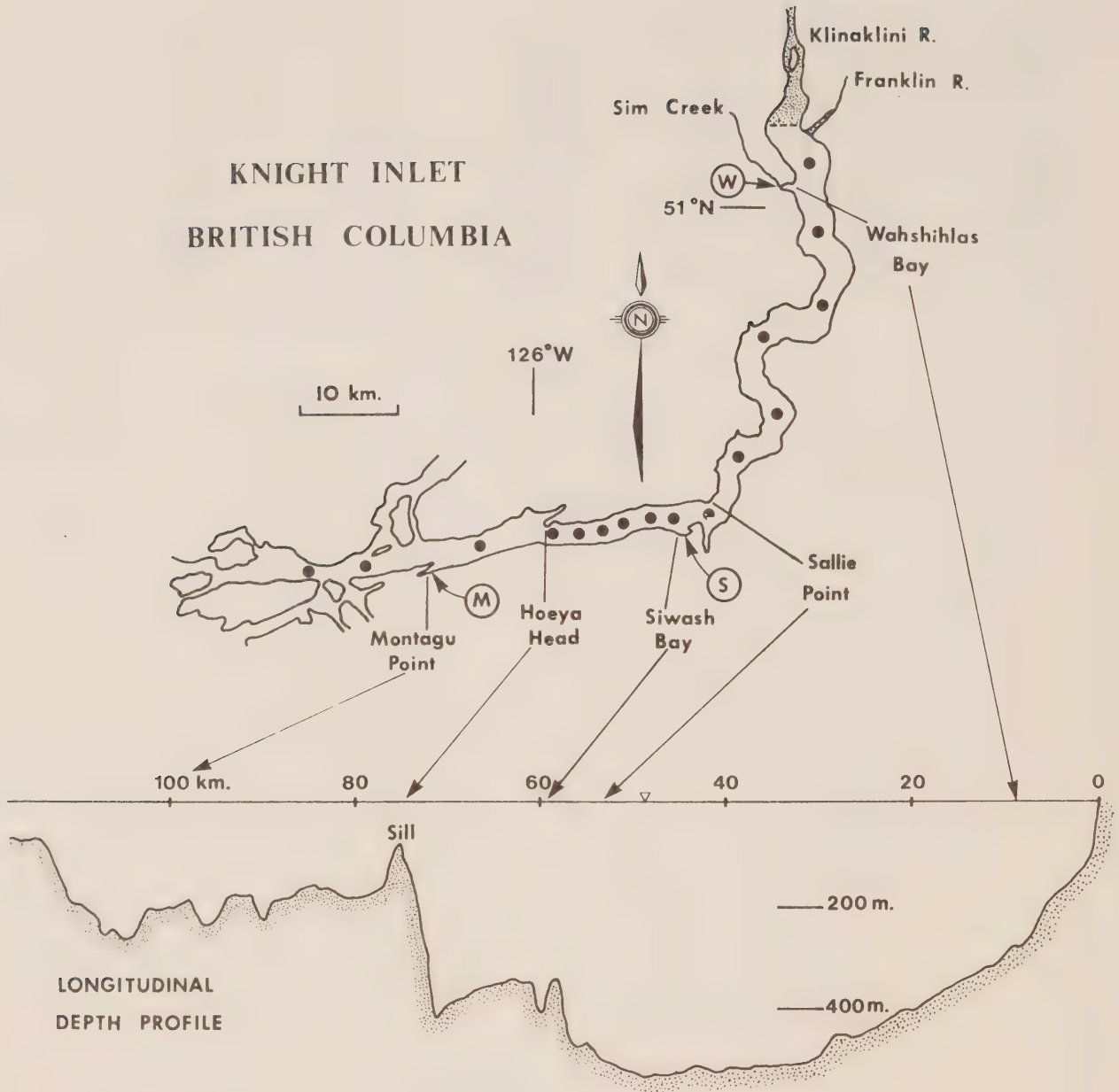
COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO.141 KNIGHT INLET 1978  
 LAT N50 40.60  
 DATE 19/ 4/78  
 TIME (PST) 2059

TAPE CZ0/78/ 4- 52  
 LONG W125 57.30  
 PASS NO. 37  
 STN: ACOUSTIC 7

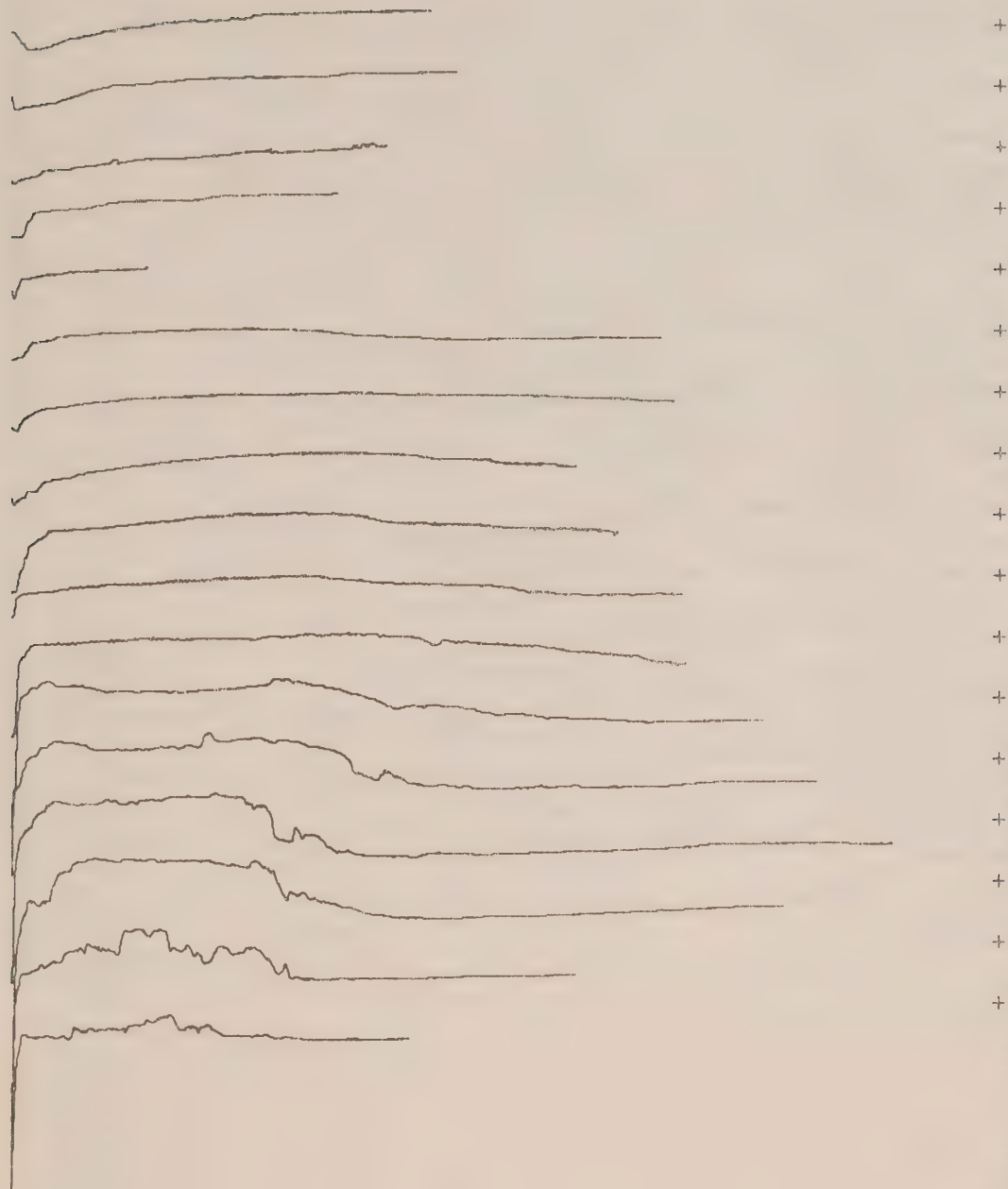
DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	24.47	8.10	19.05	34.76
2.1	2.1	26.12	7.96	20.36	53.05
5.0	5.0	29.04	7.44	22.71	33.49
10.1	10.1	29.94	7.21	23.44	14.01*
15.1	15.2	30.04	7.17	23.52	7.82*
20.0	20.1	30.13	7.15	23.60	7.18
25.1	25.2	30.20	7.14	23.66	4.97*
30.1	30.2	30.22	7.13	23.67	3.42*
35.1	35.2	30.27	7.13	23.71	+
MAX DEPTH	38.4				

## FIGURES

# KNIGHT INLET BRITISH COLUMBIA



DEPTH (M) 520.00 455.00 390.00 325.00 260.00 195.00 130.00 65.00 0.00

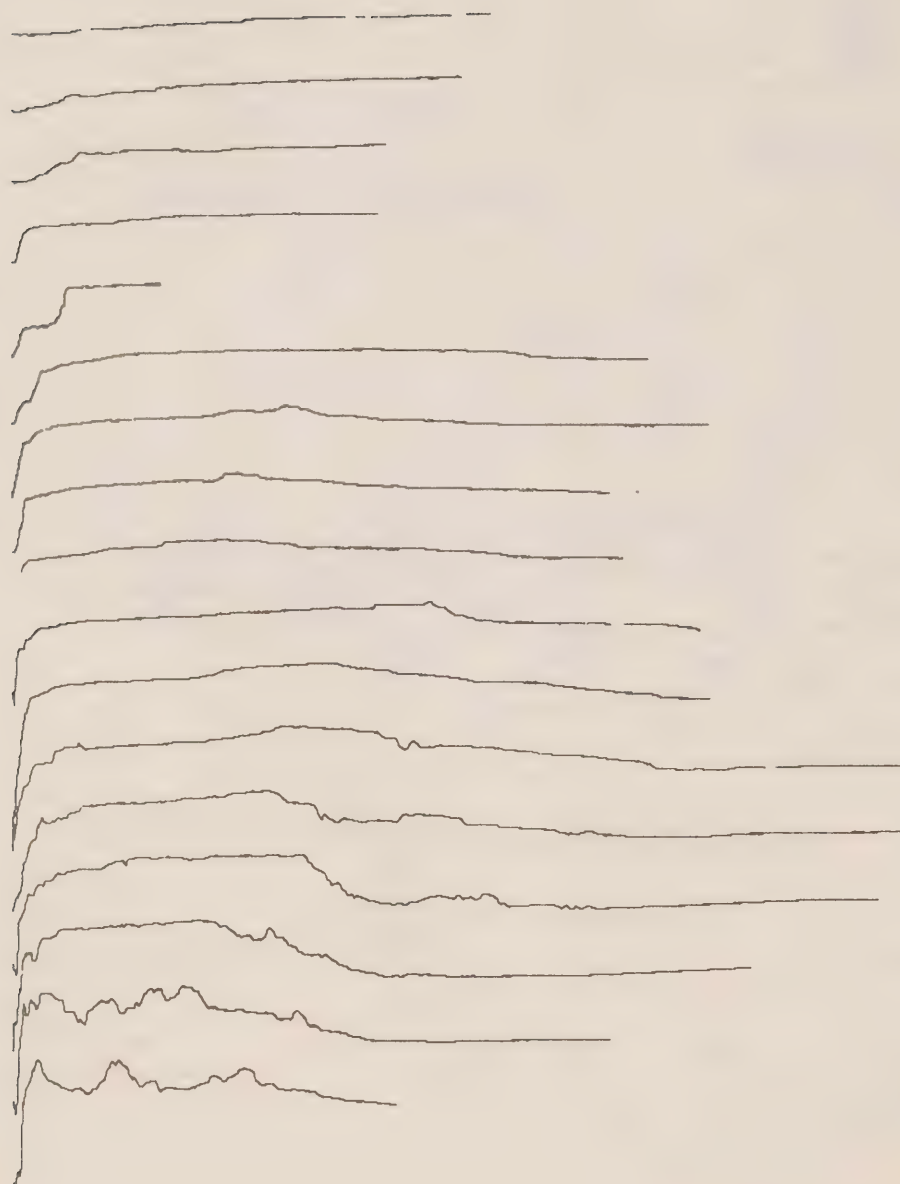


KNIGHT INLET: TEMPERATURE. 15-16/2/77.  
STNS: 1-8, 10-12, 14-19

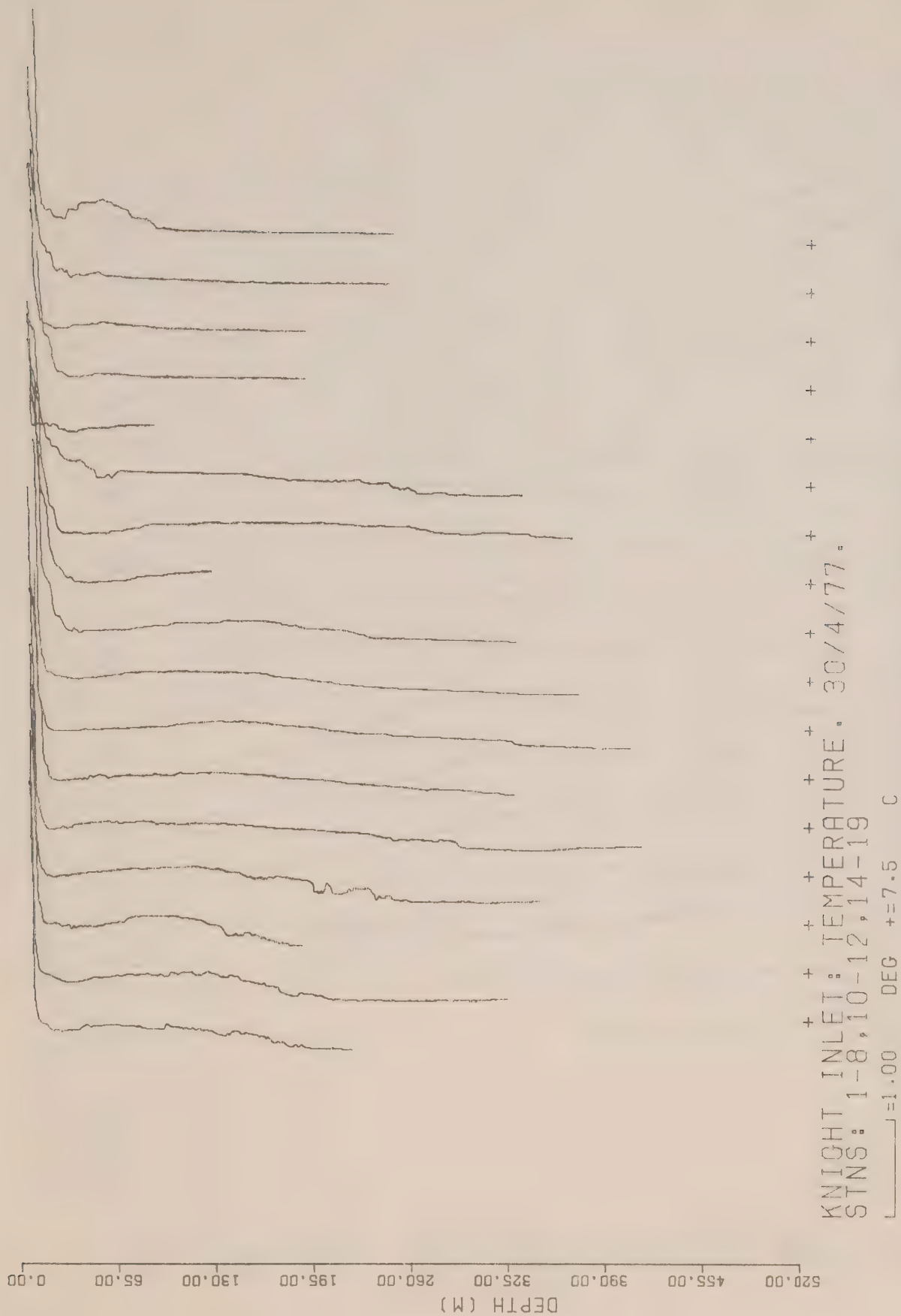
1.00 DEG +/- 7.5 C

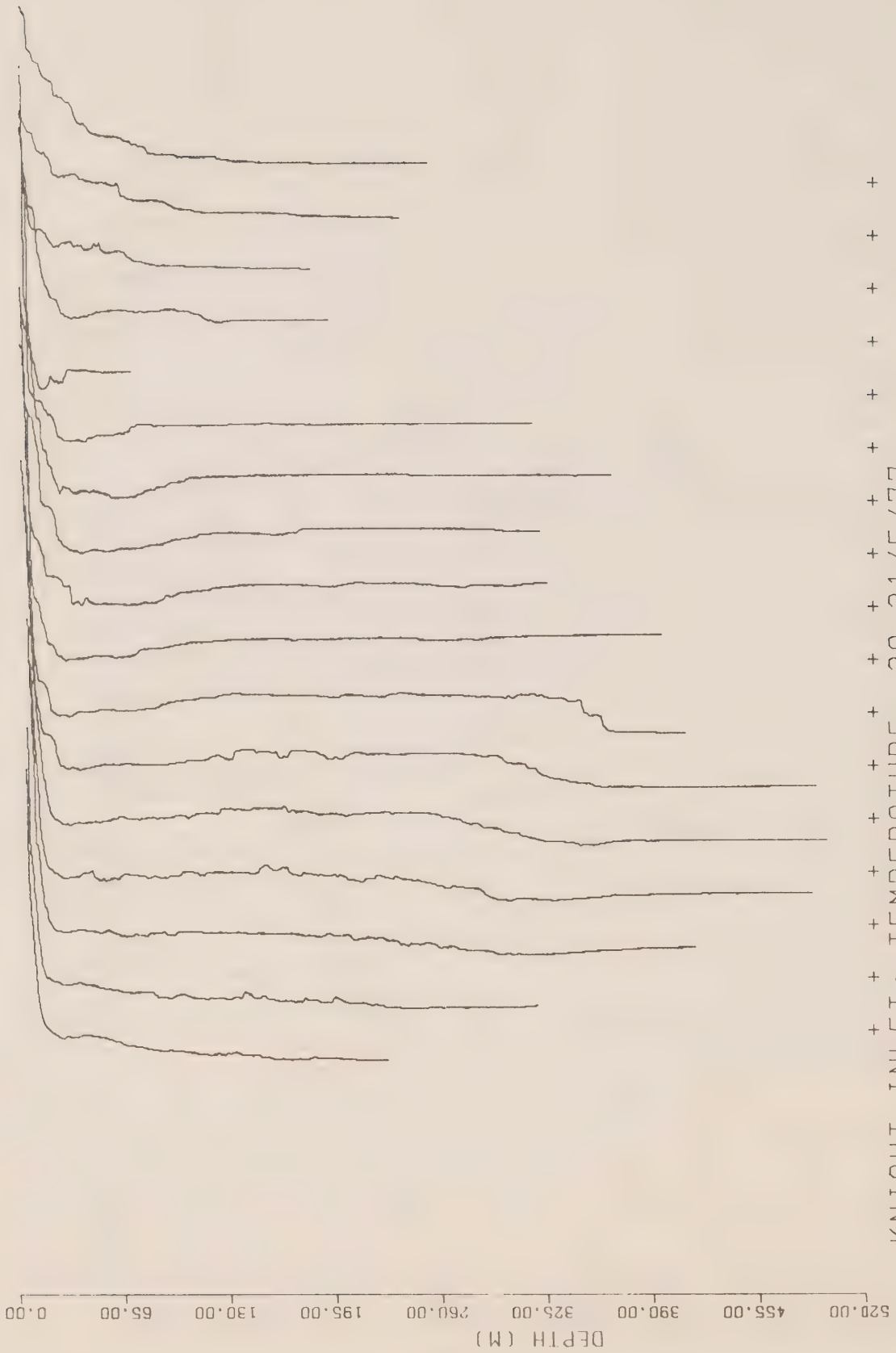


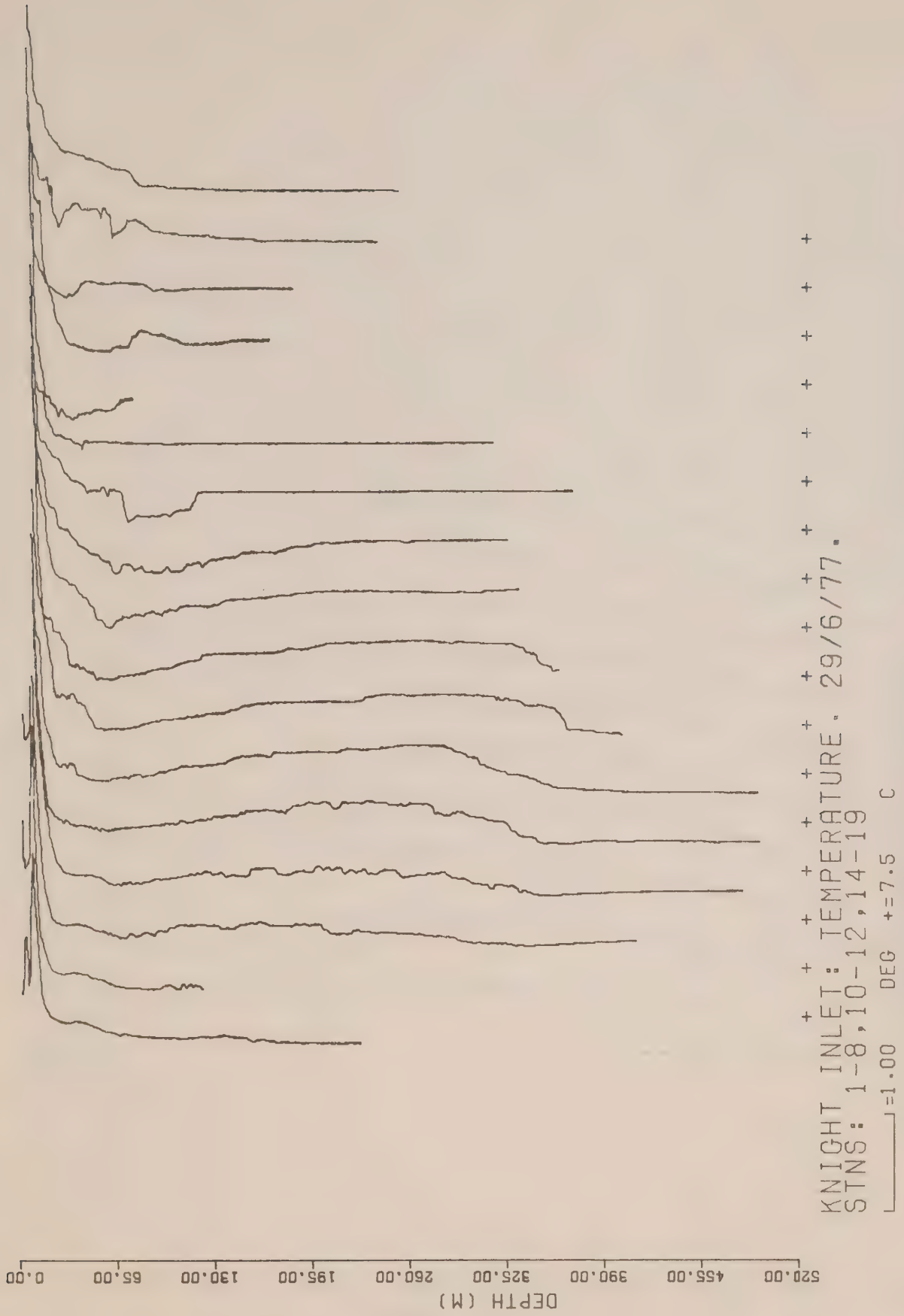
DEPTH (M) 520.00 455.00 390.00 325.00 260.00 195.00 130.00 65.00 0.00

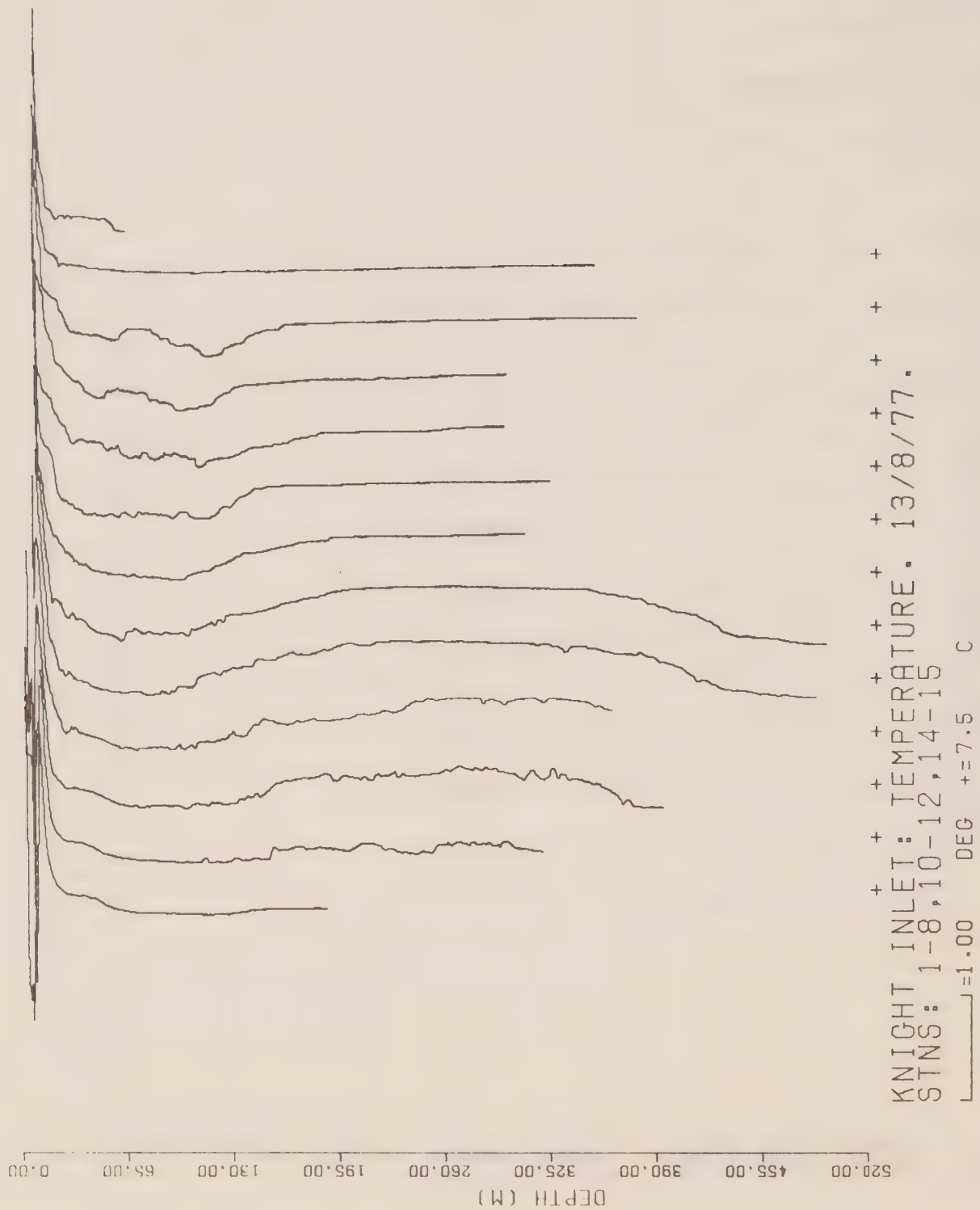


KNIGHT INLET: TEMPERATURE. 22-23/3/77.  
STATIONS: 1-8, 10-12, 14-19  
DEG +=7.5 C  
[ ]=1.00

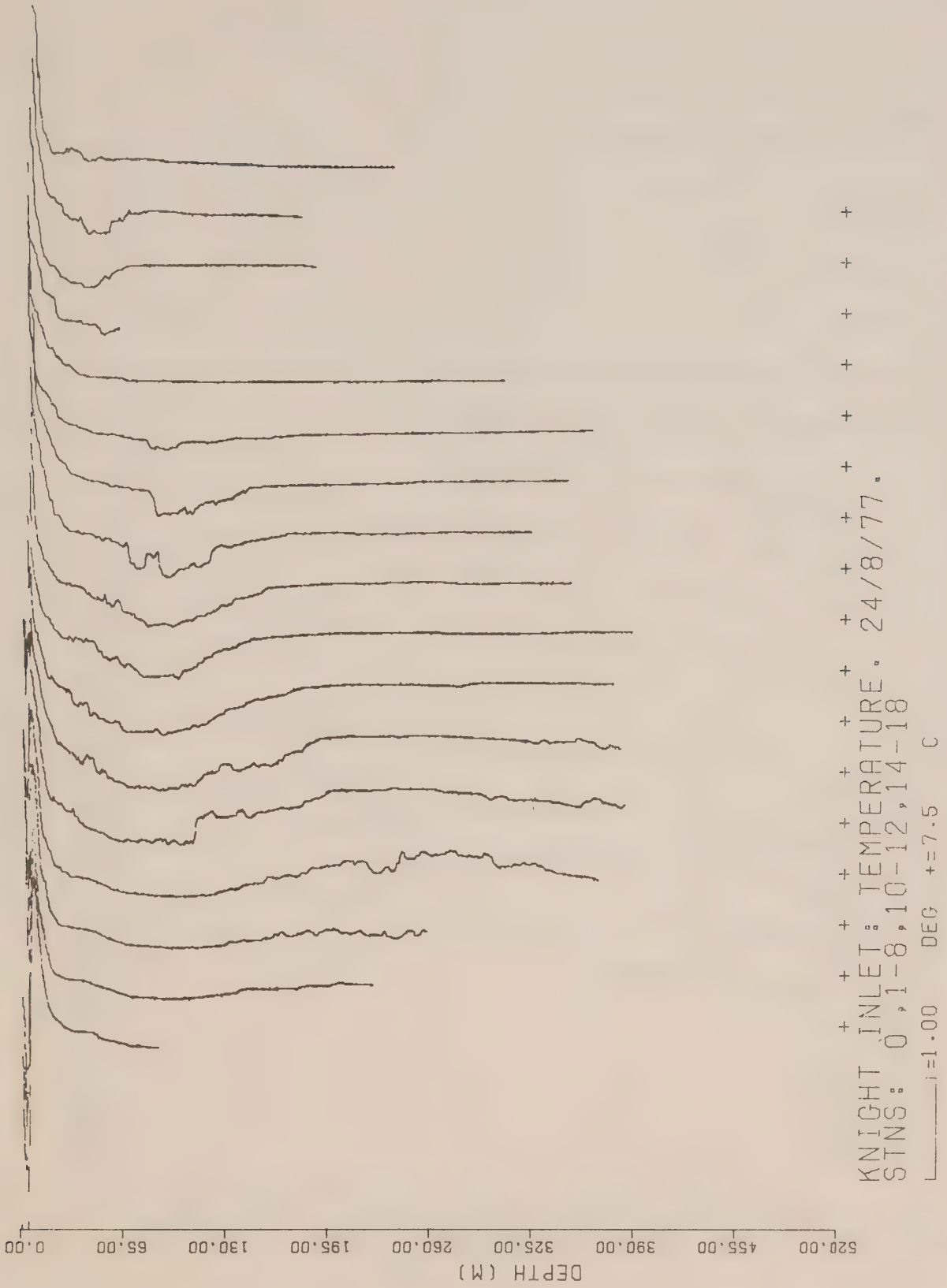


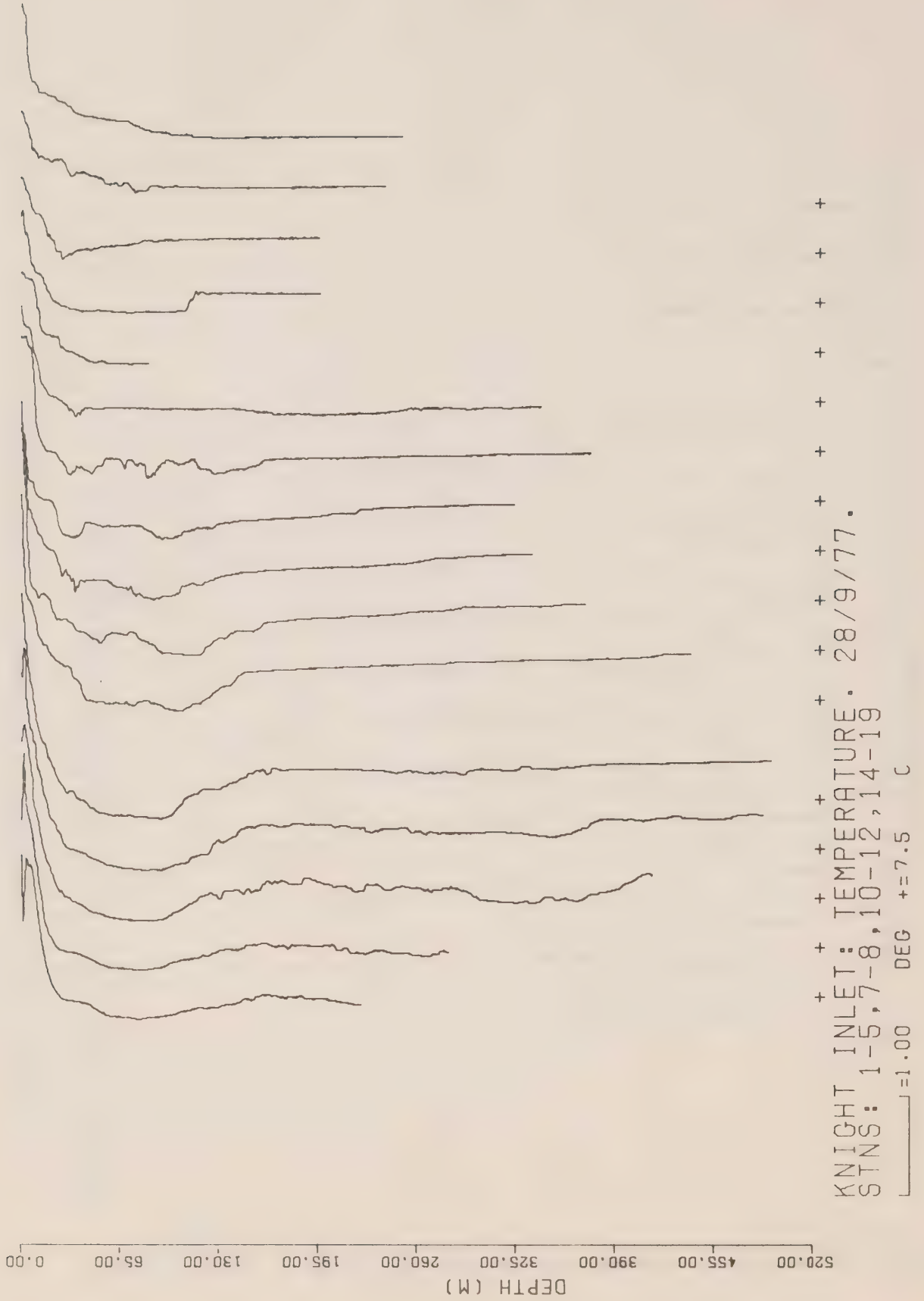


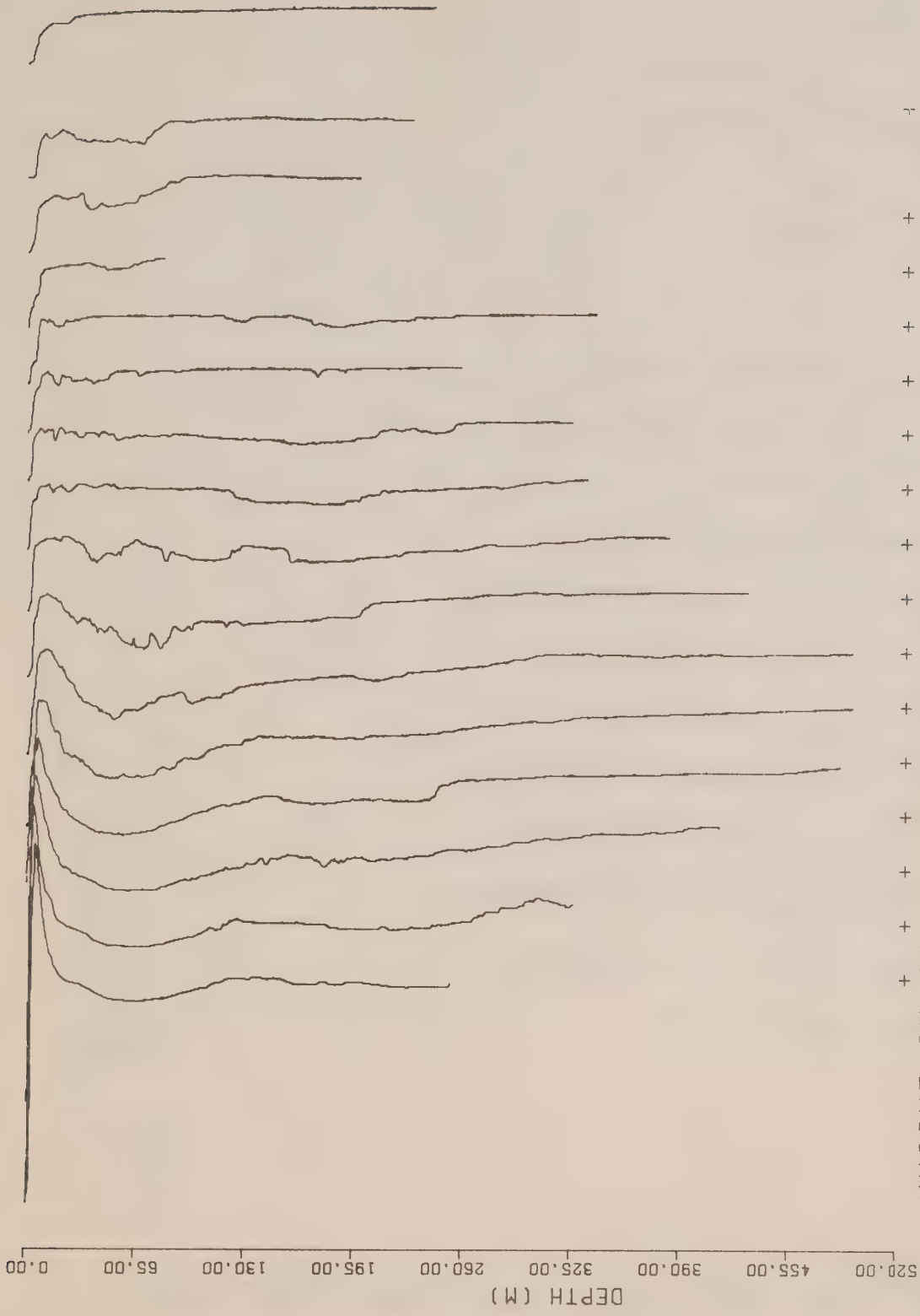




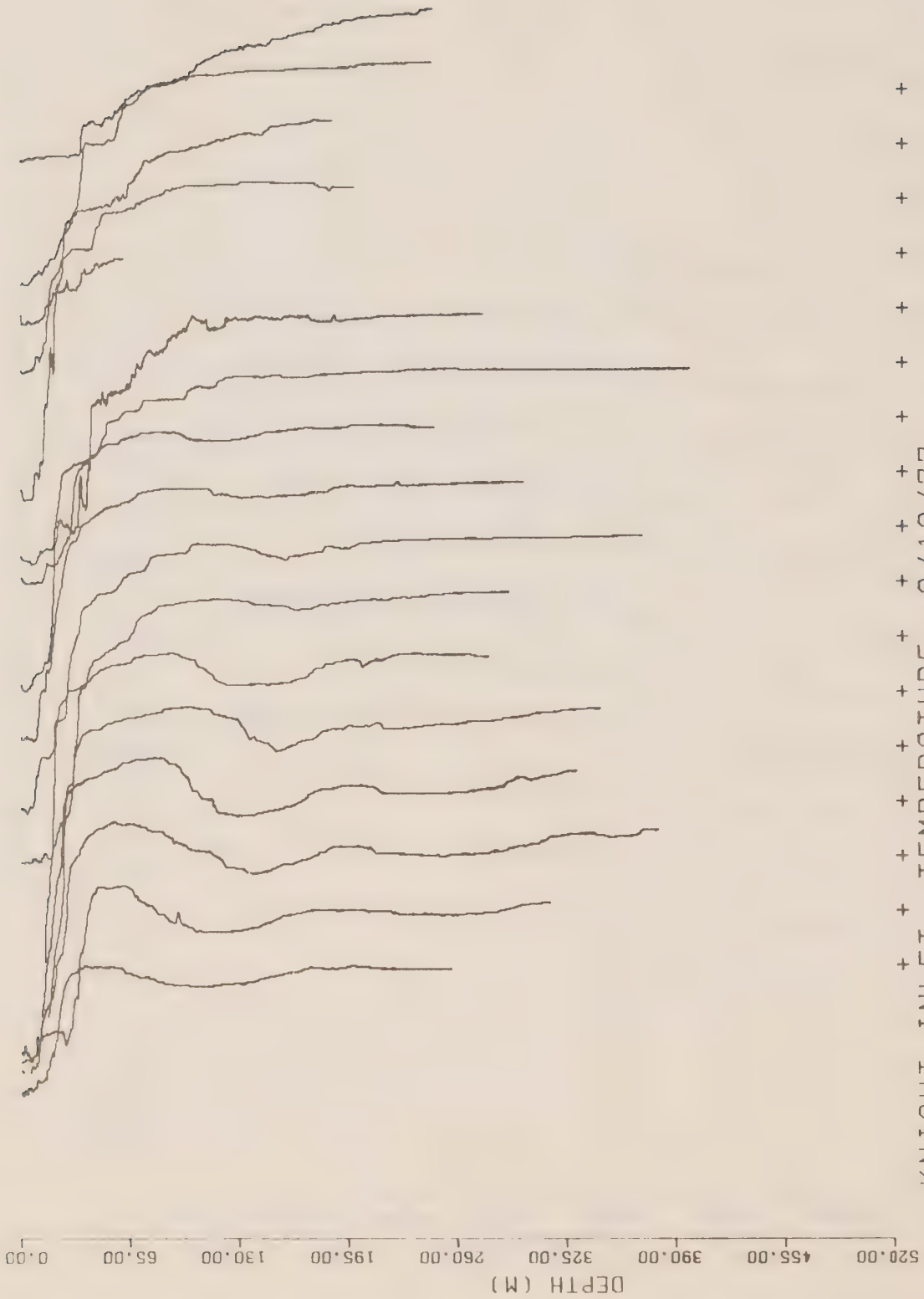


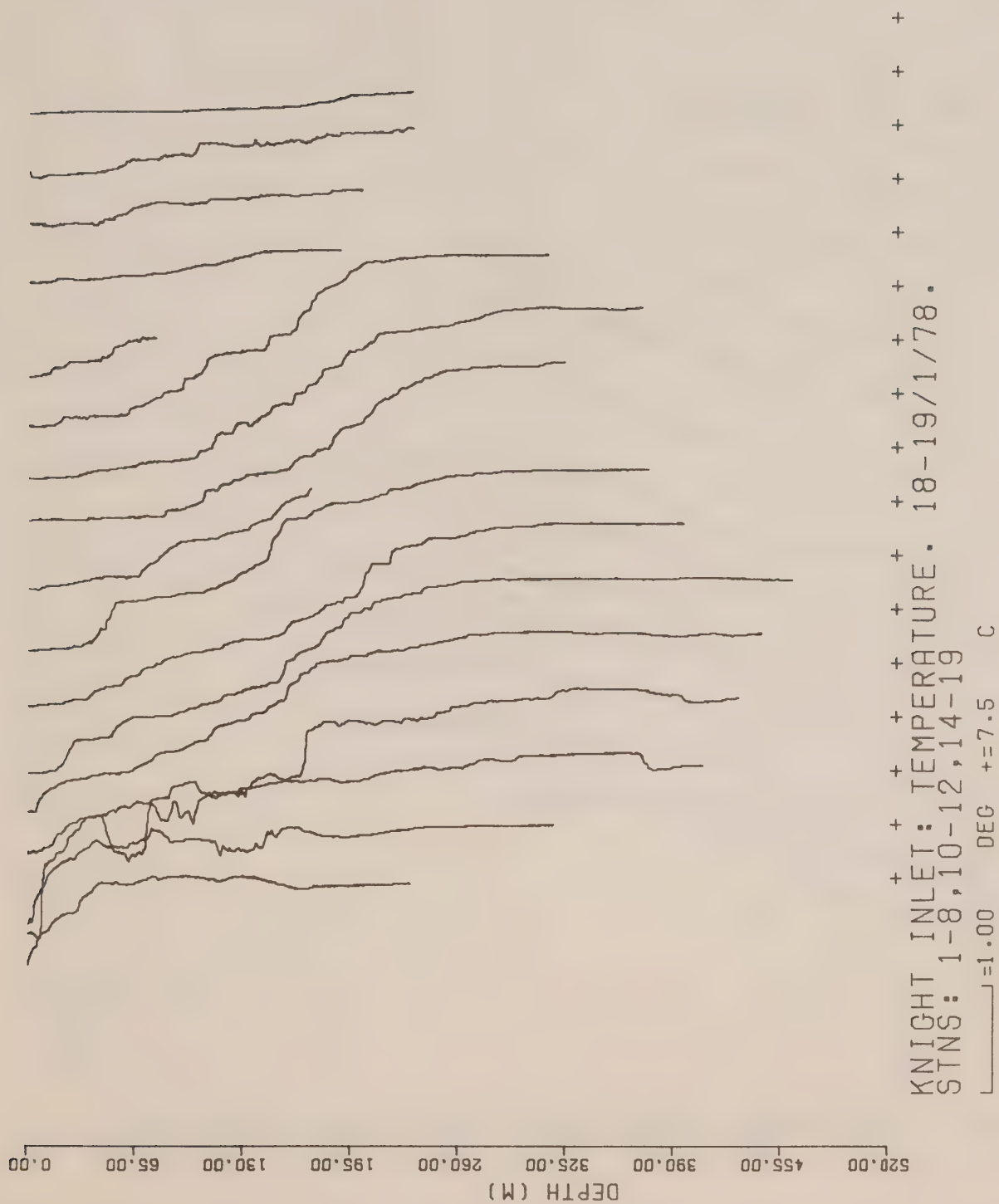




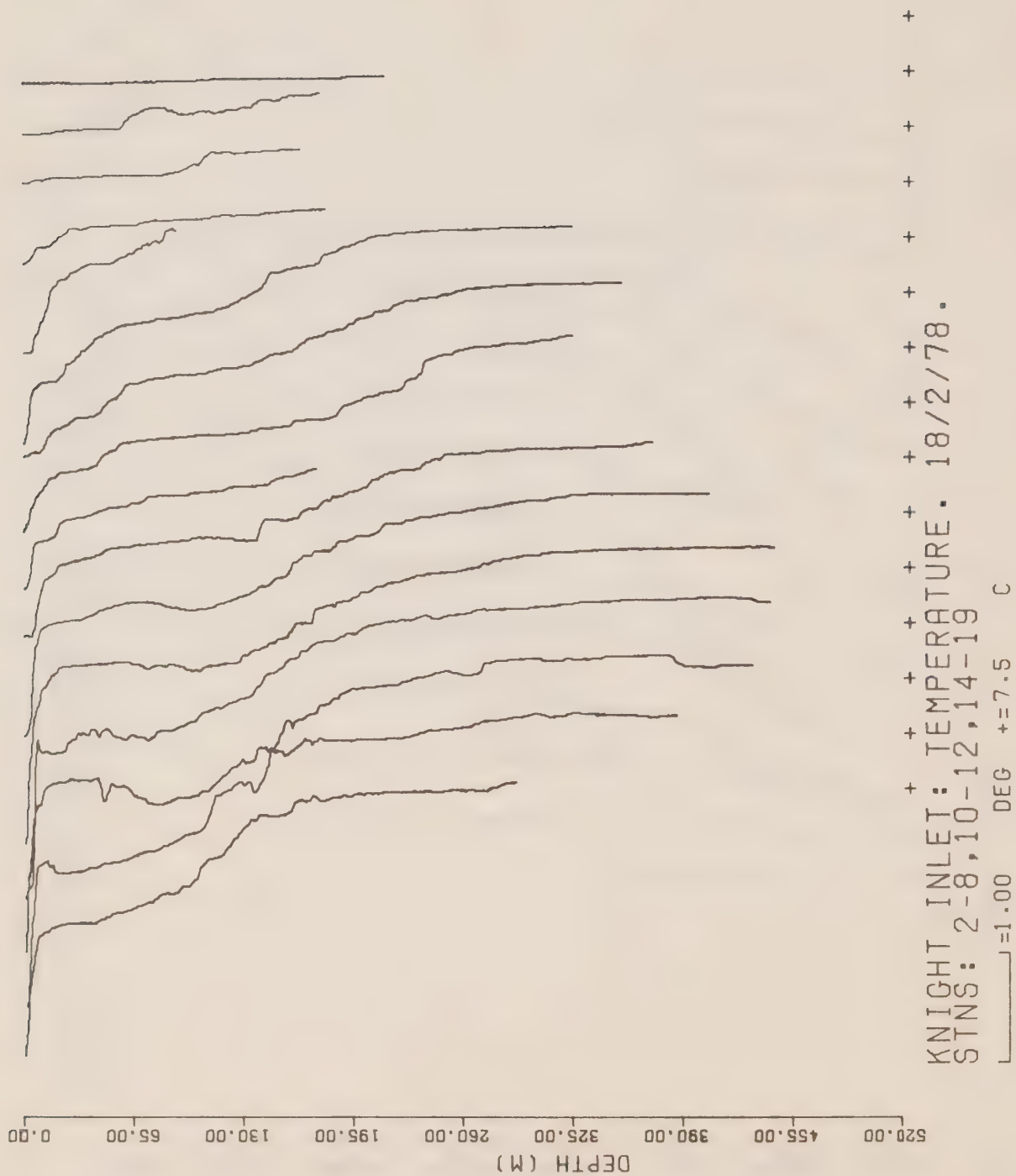


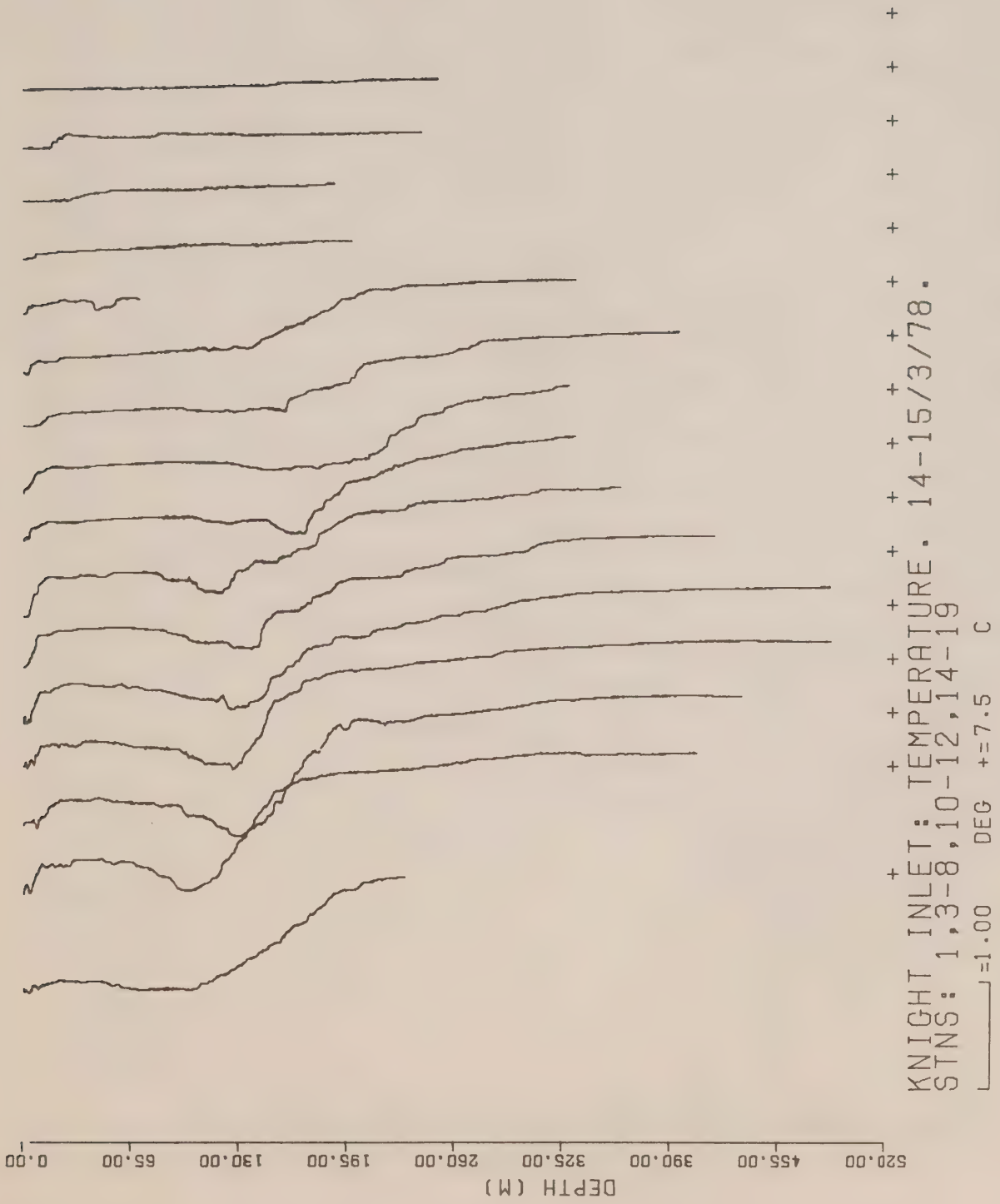
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 KNIGHT INLET, TEMPERATURE, 3/11/77  
 STNS: 1-8, 10-12, 14-17, 19.  
 ]=1.00 DEG +=7.5 C

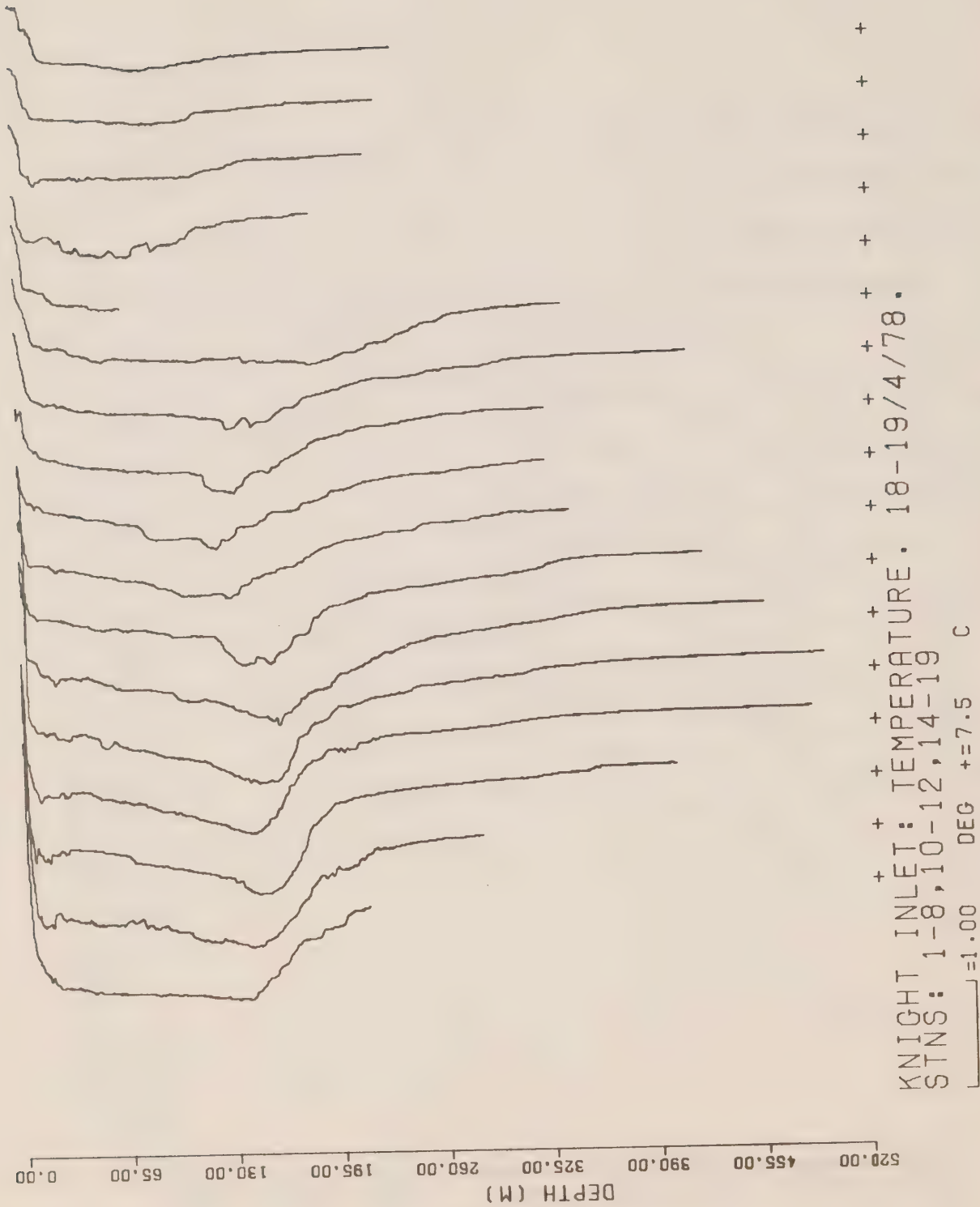


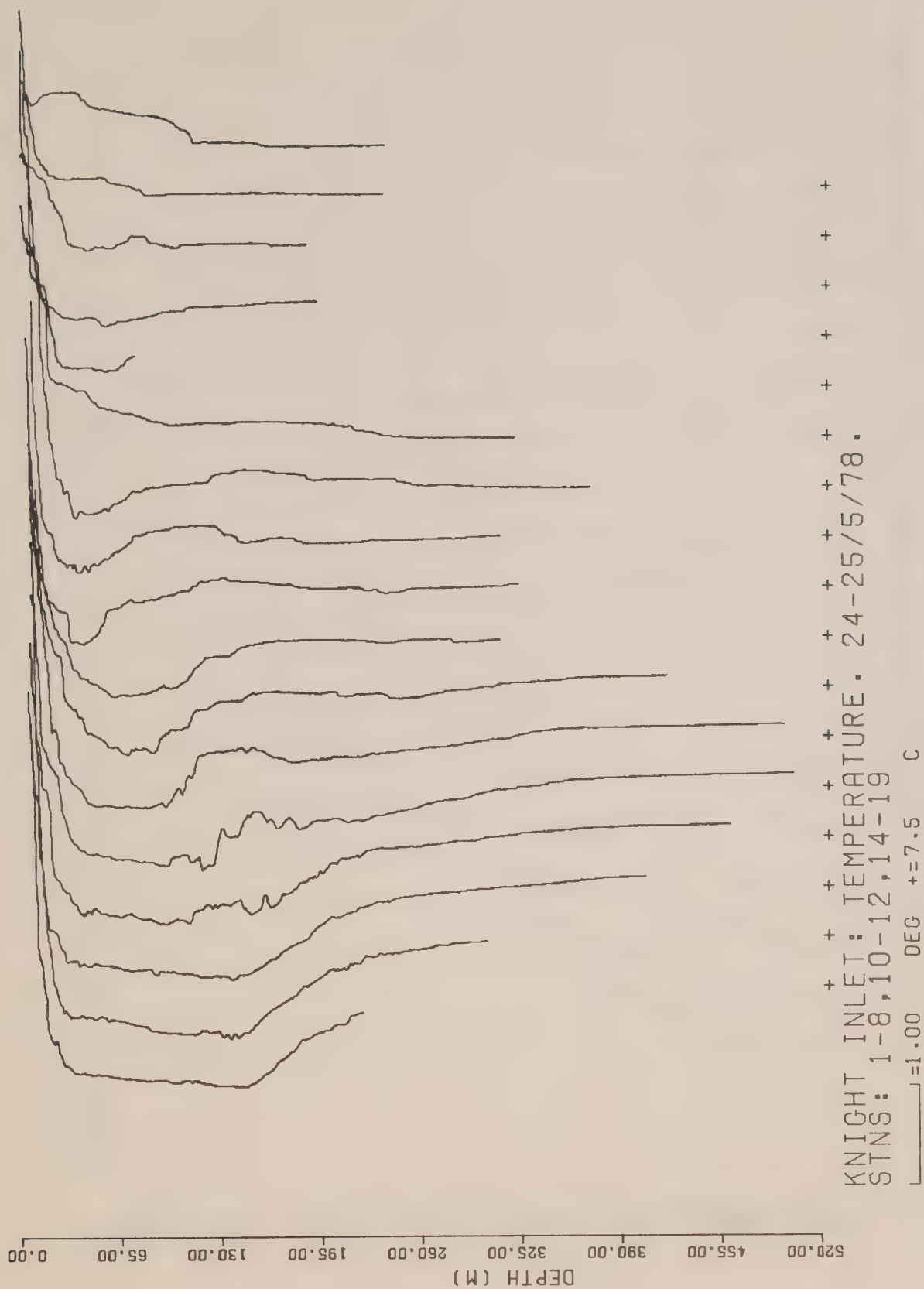


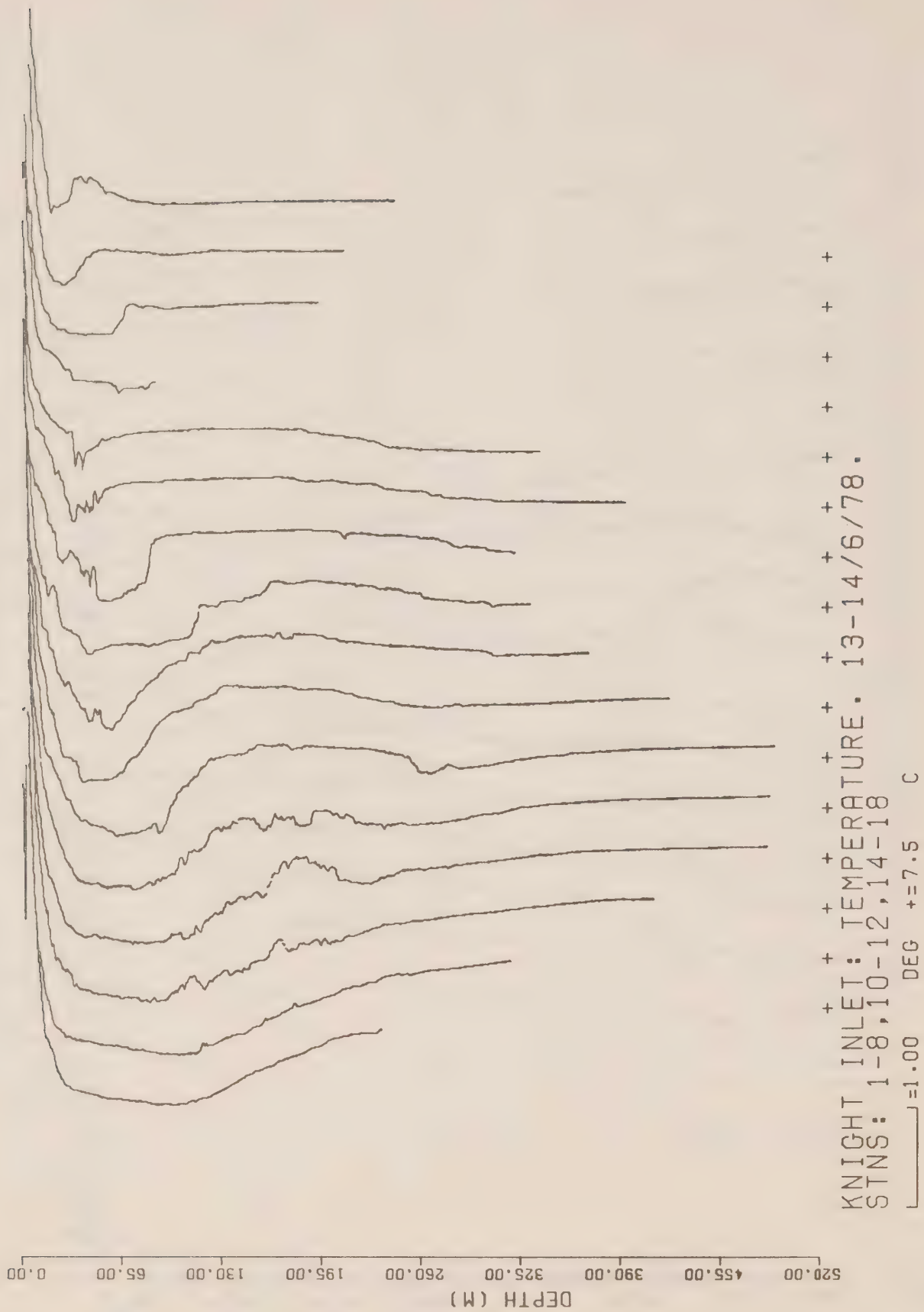




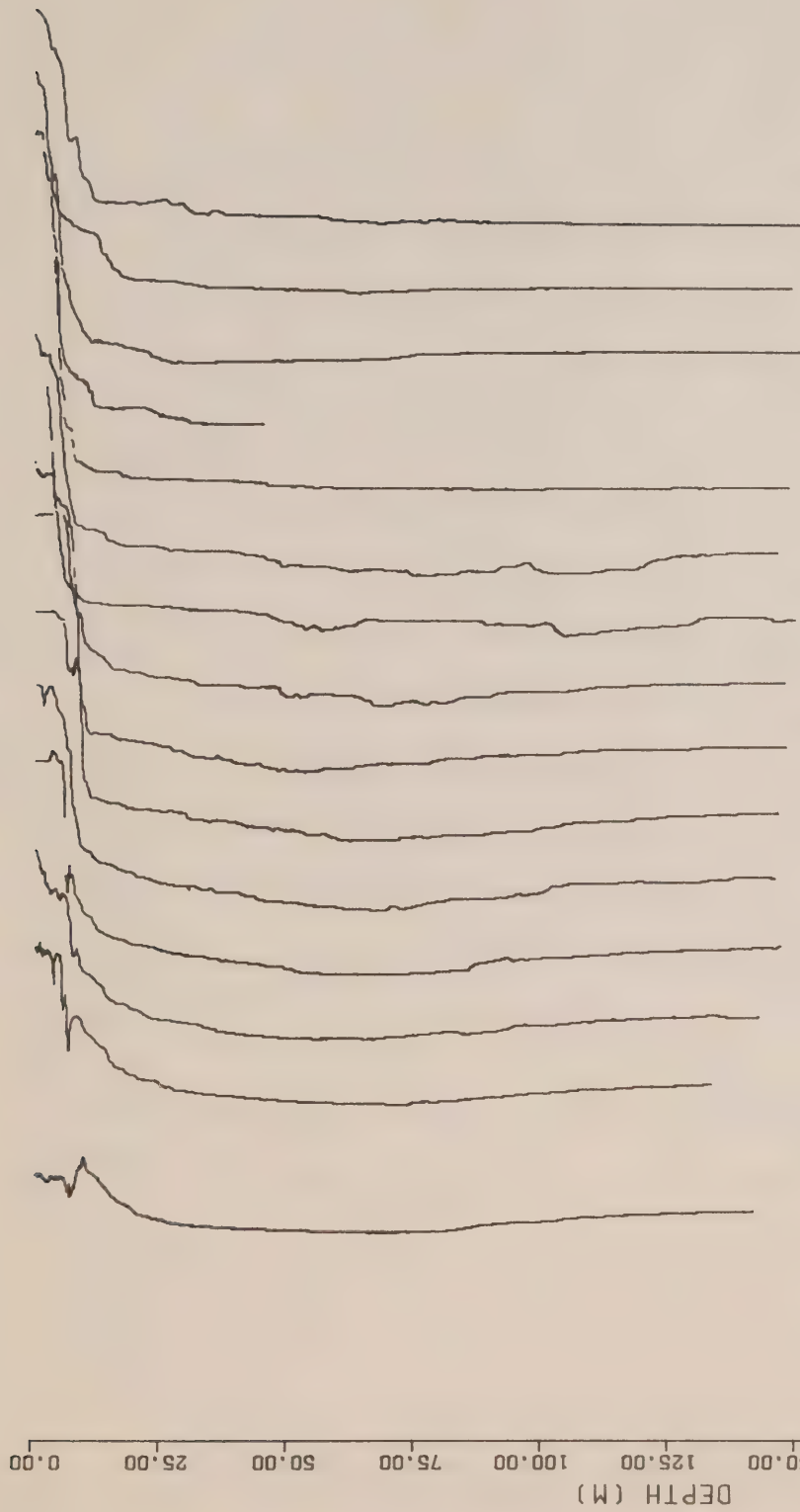




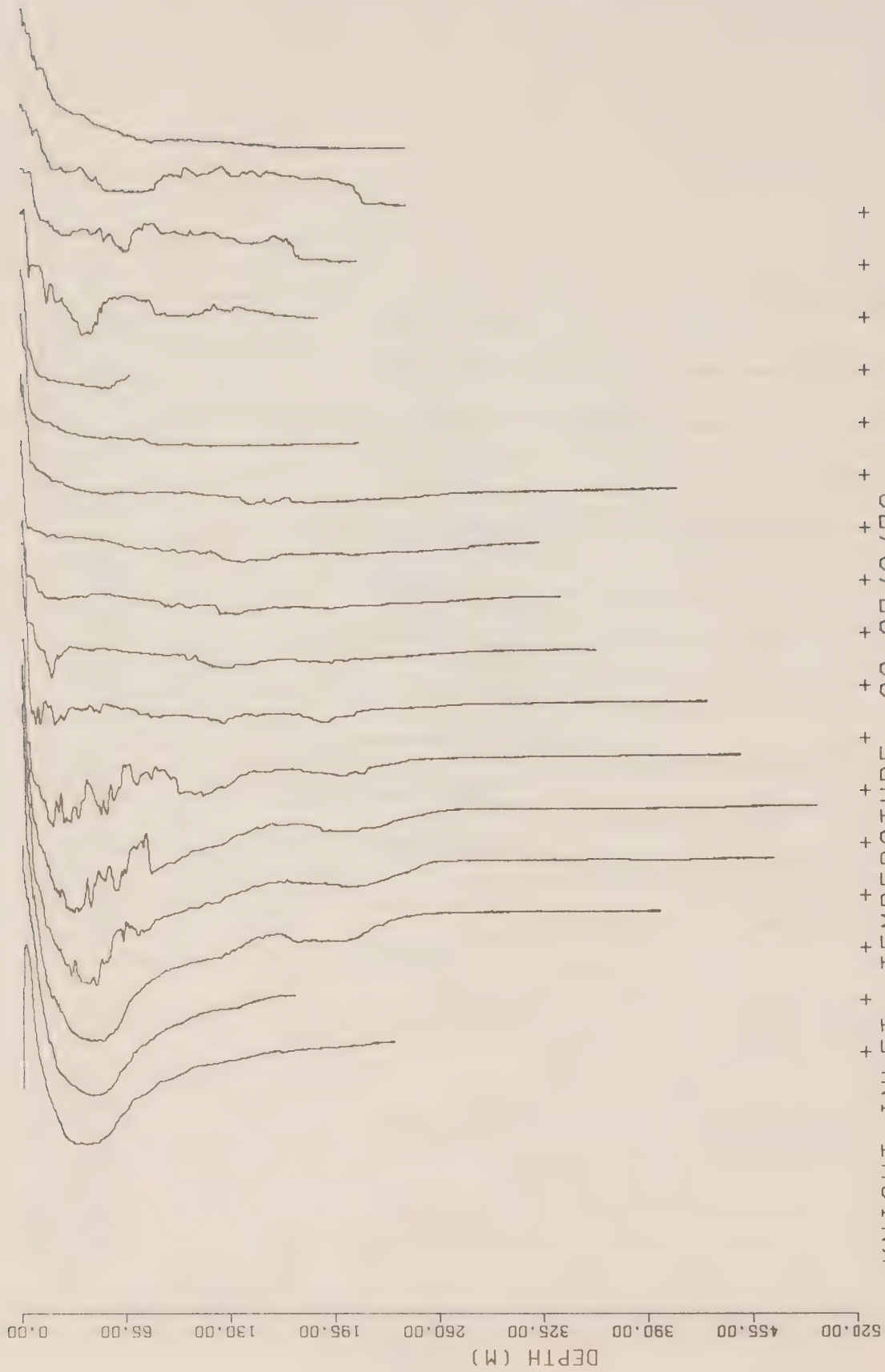








KNIGHT INLET: TEMPERATURE. 25/7/78.  
STNS: 1,3-8,10-12,14-18  
[ ]=4.00 DEG +/-7.5 C



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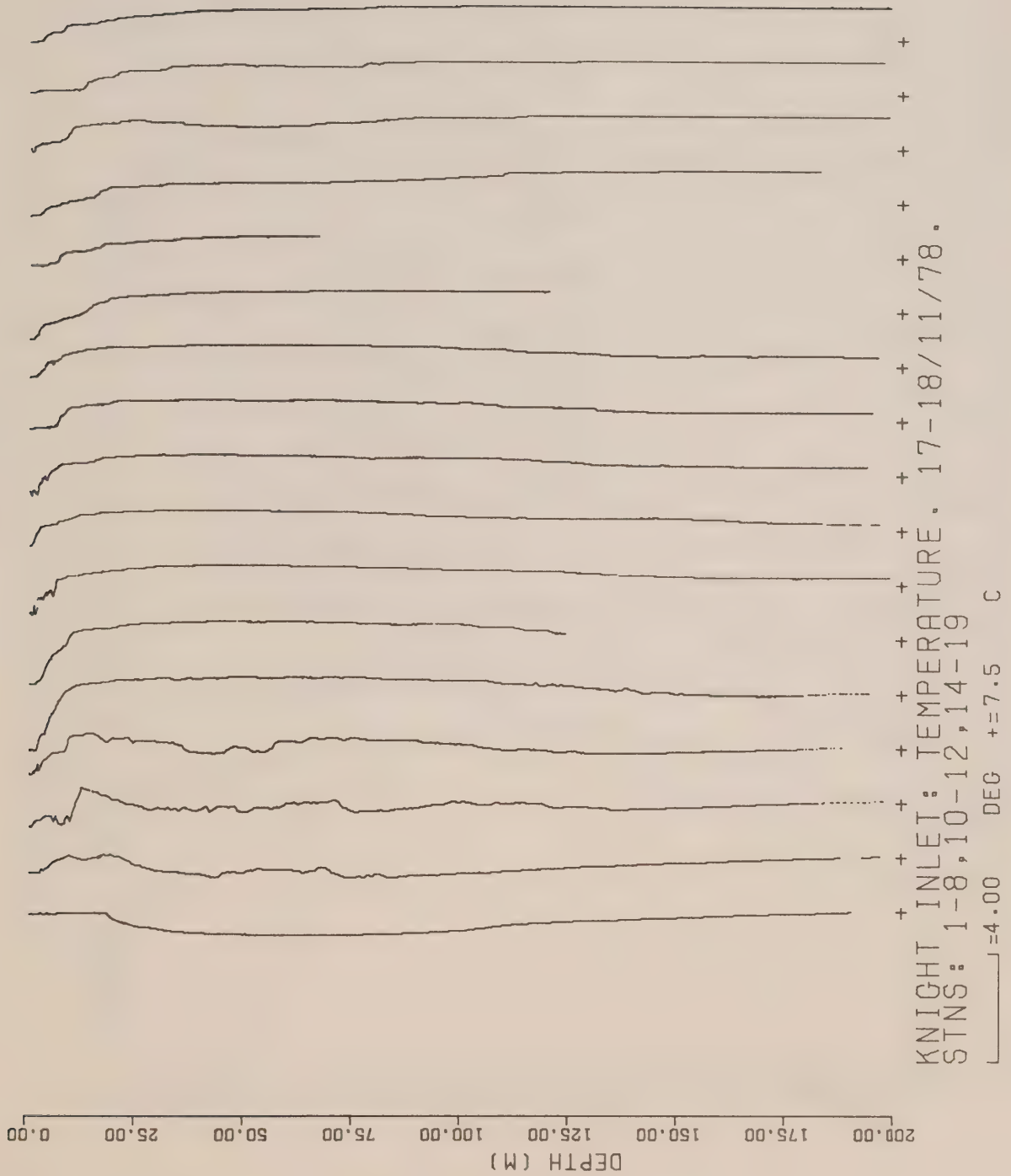
+

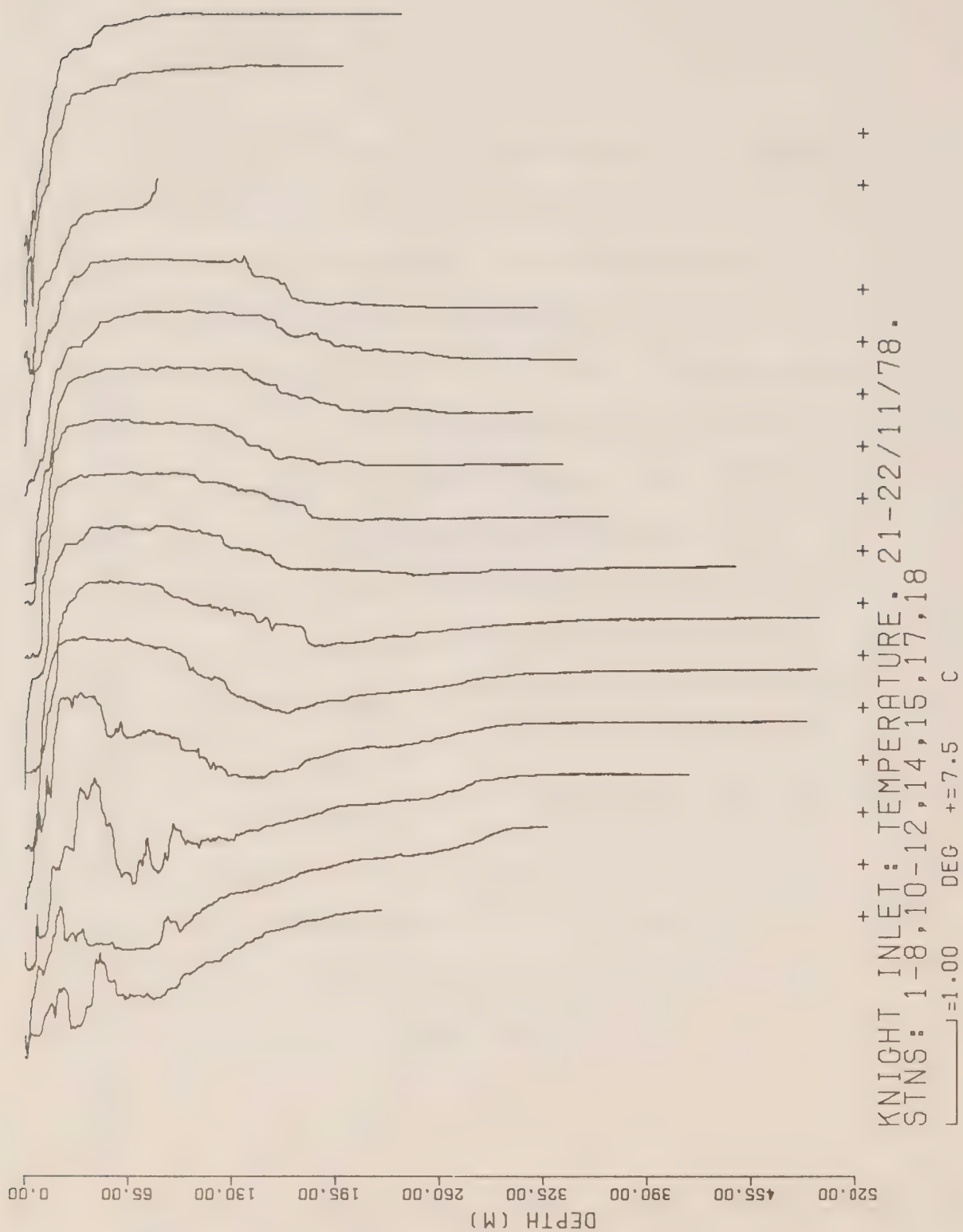
+

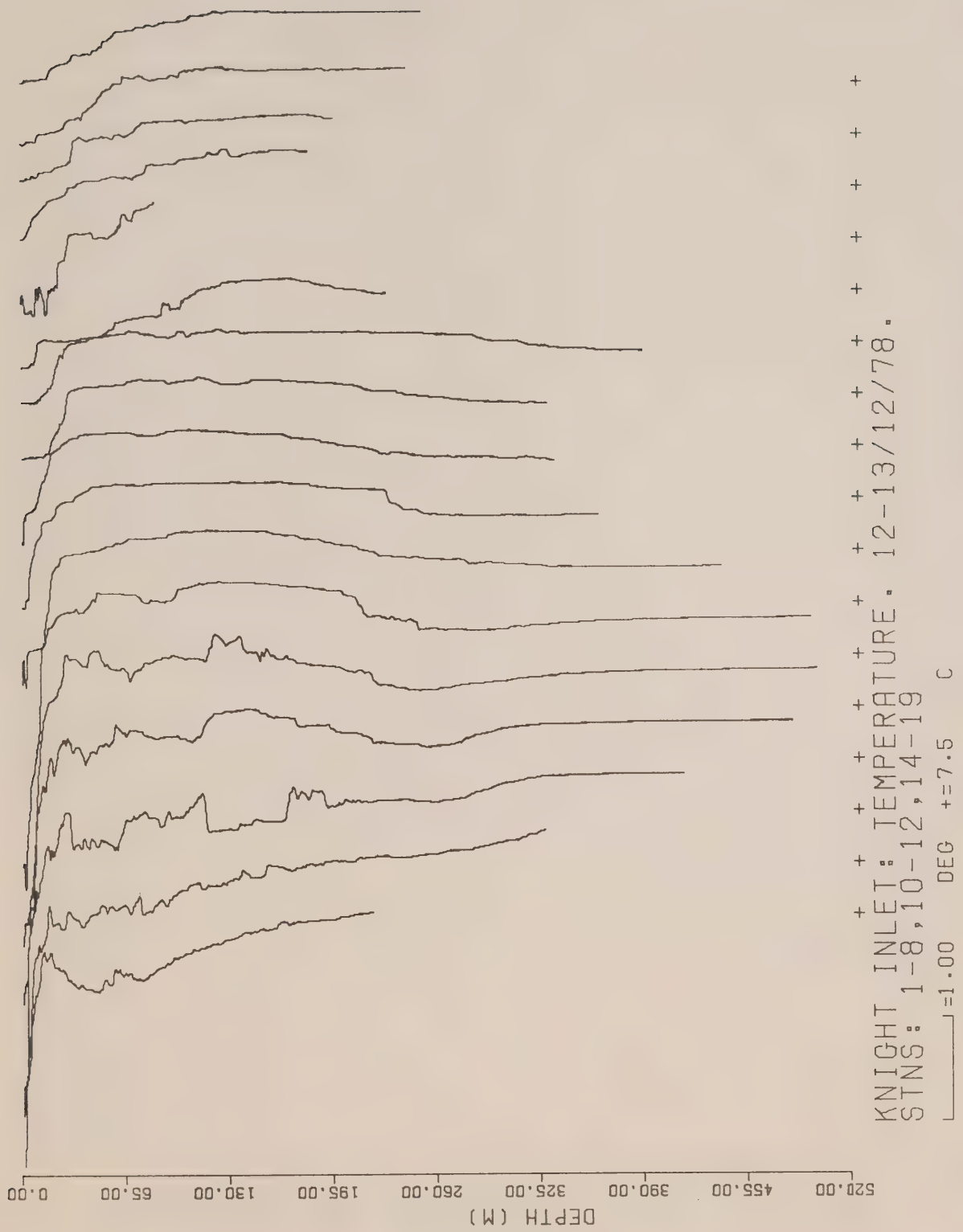
KNIGHT INLET: TEMPERATURE. 26-27/9/78.

STNS: 1-8, 10-12, 14-19

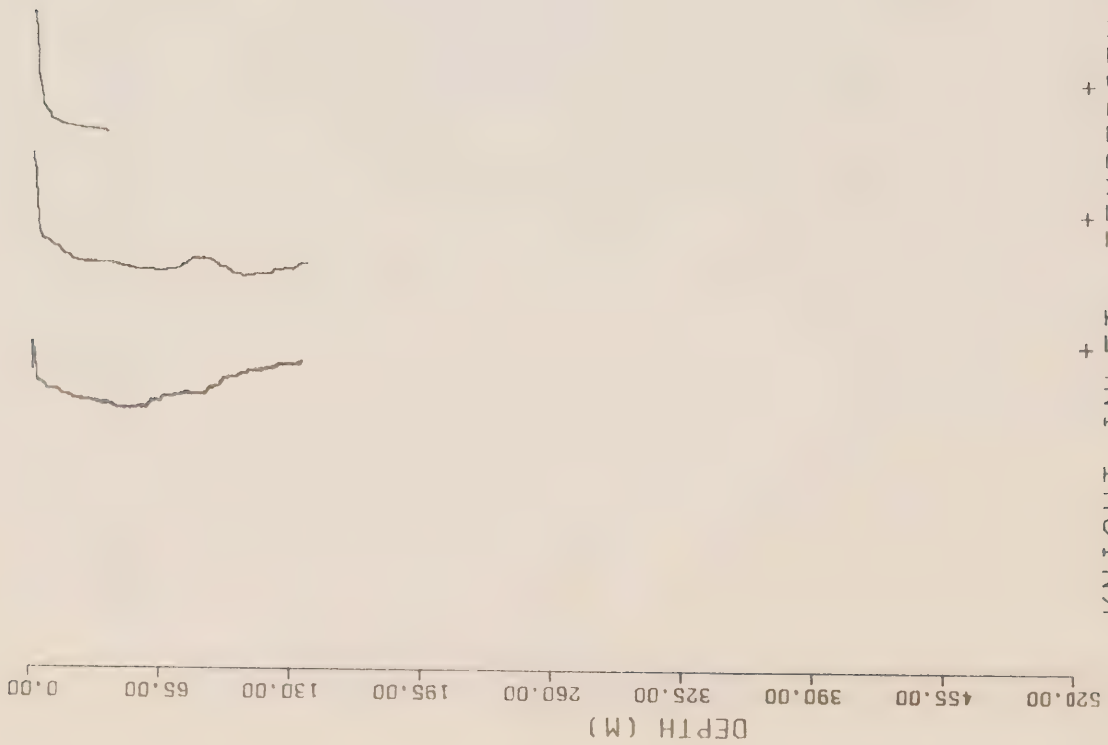
1.00 DEG +/- 7.5 C



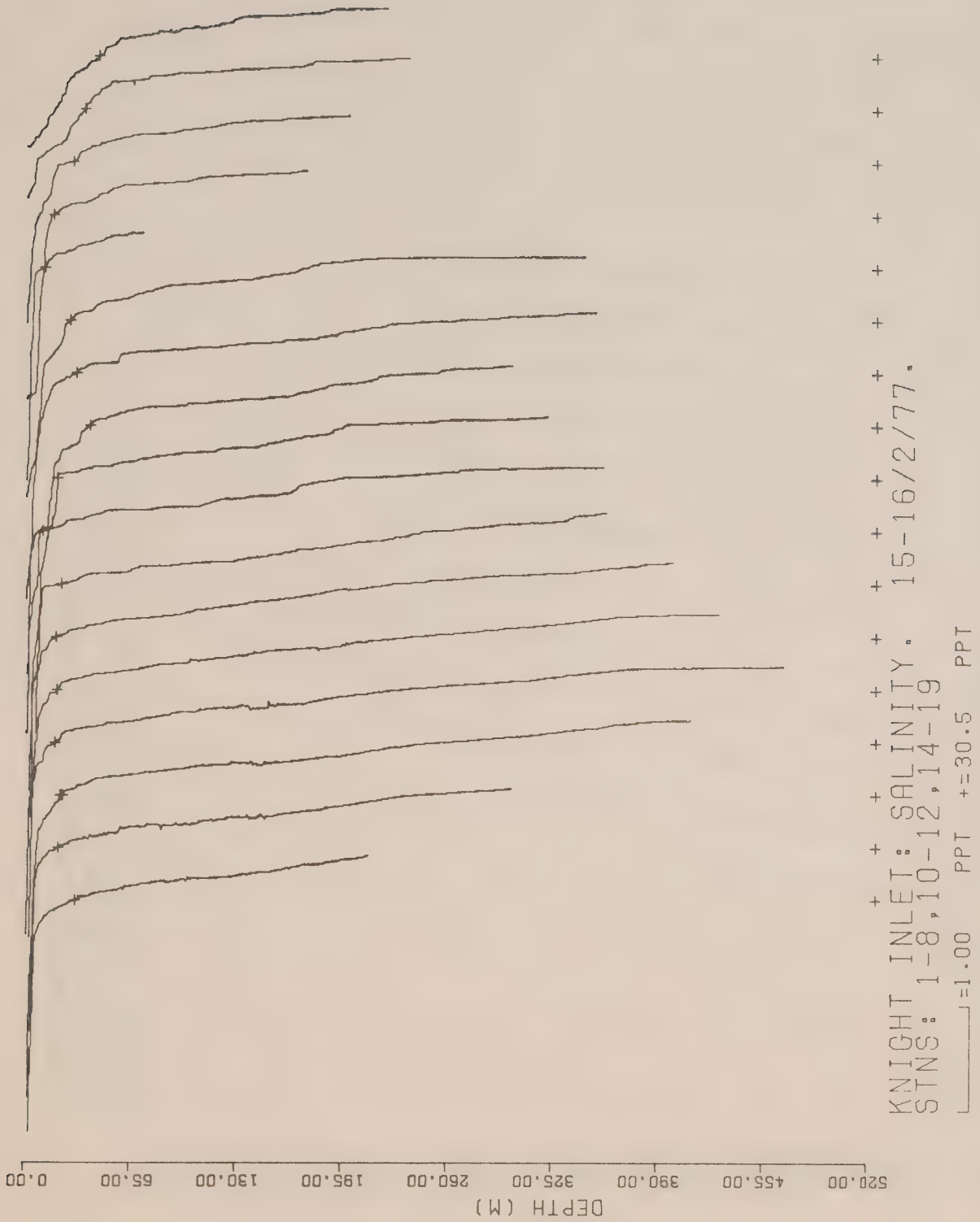


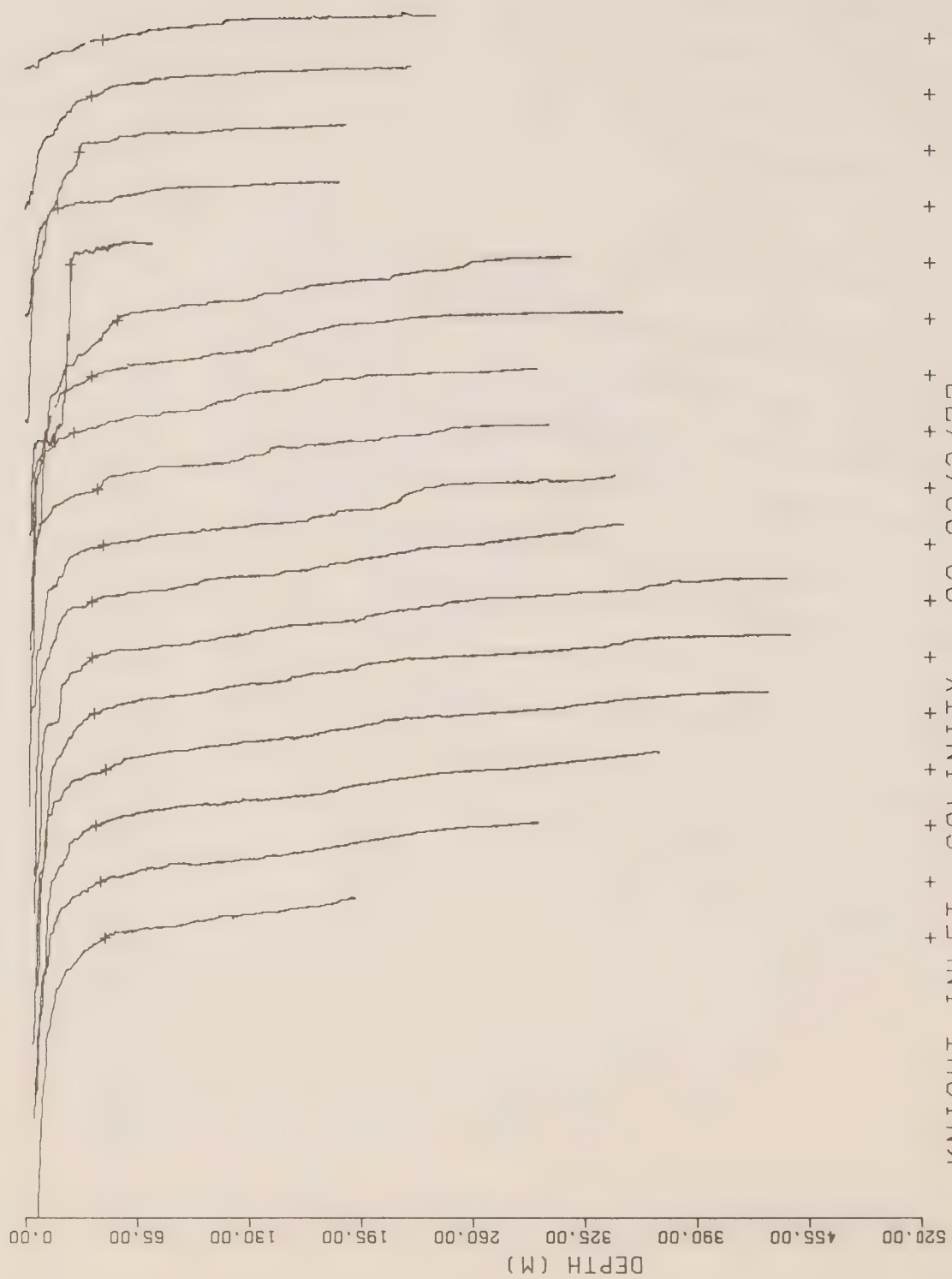


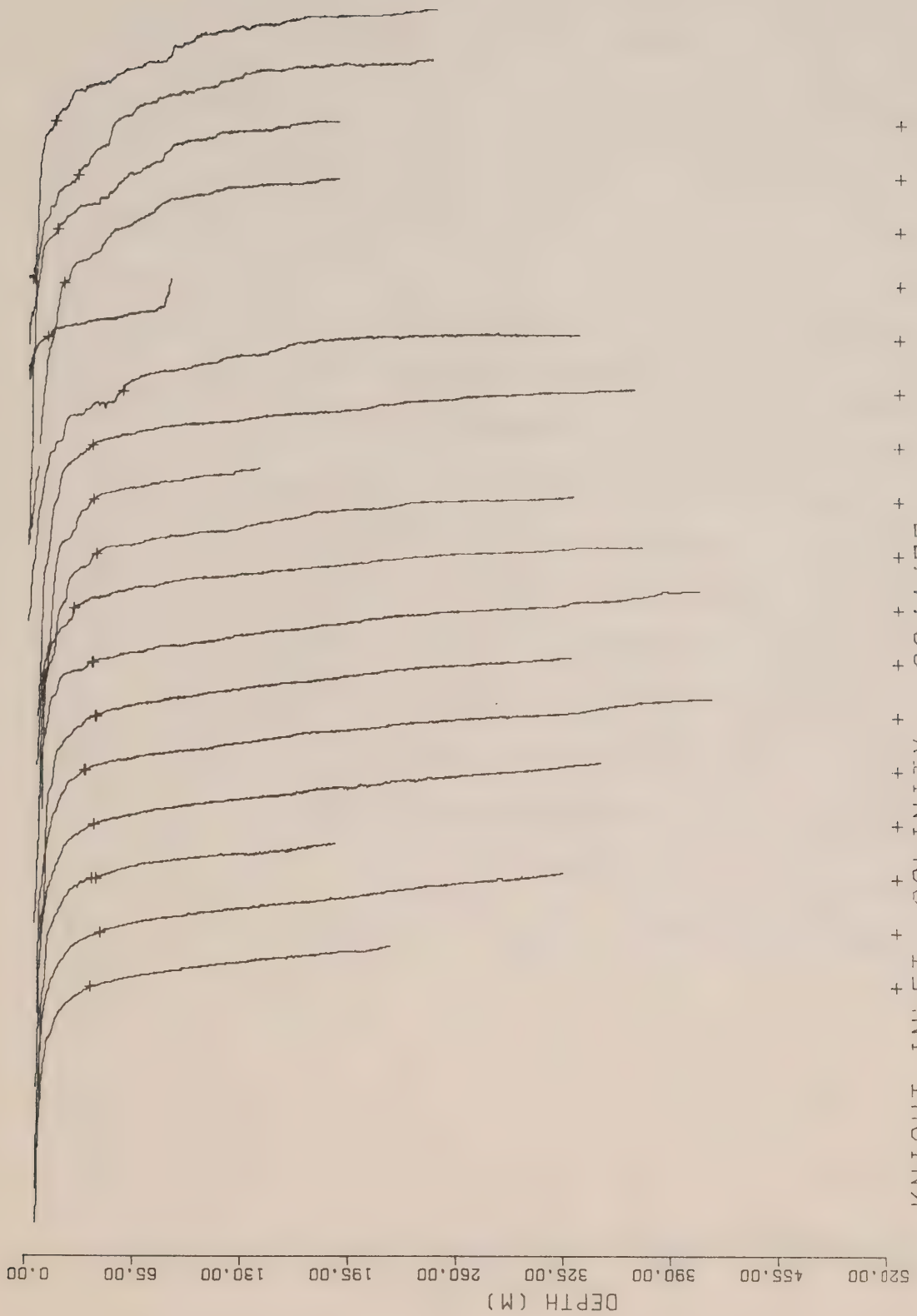


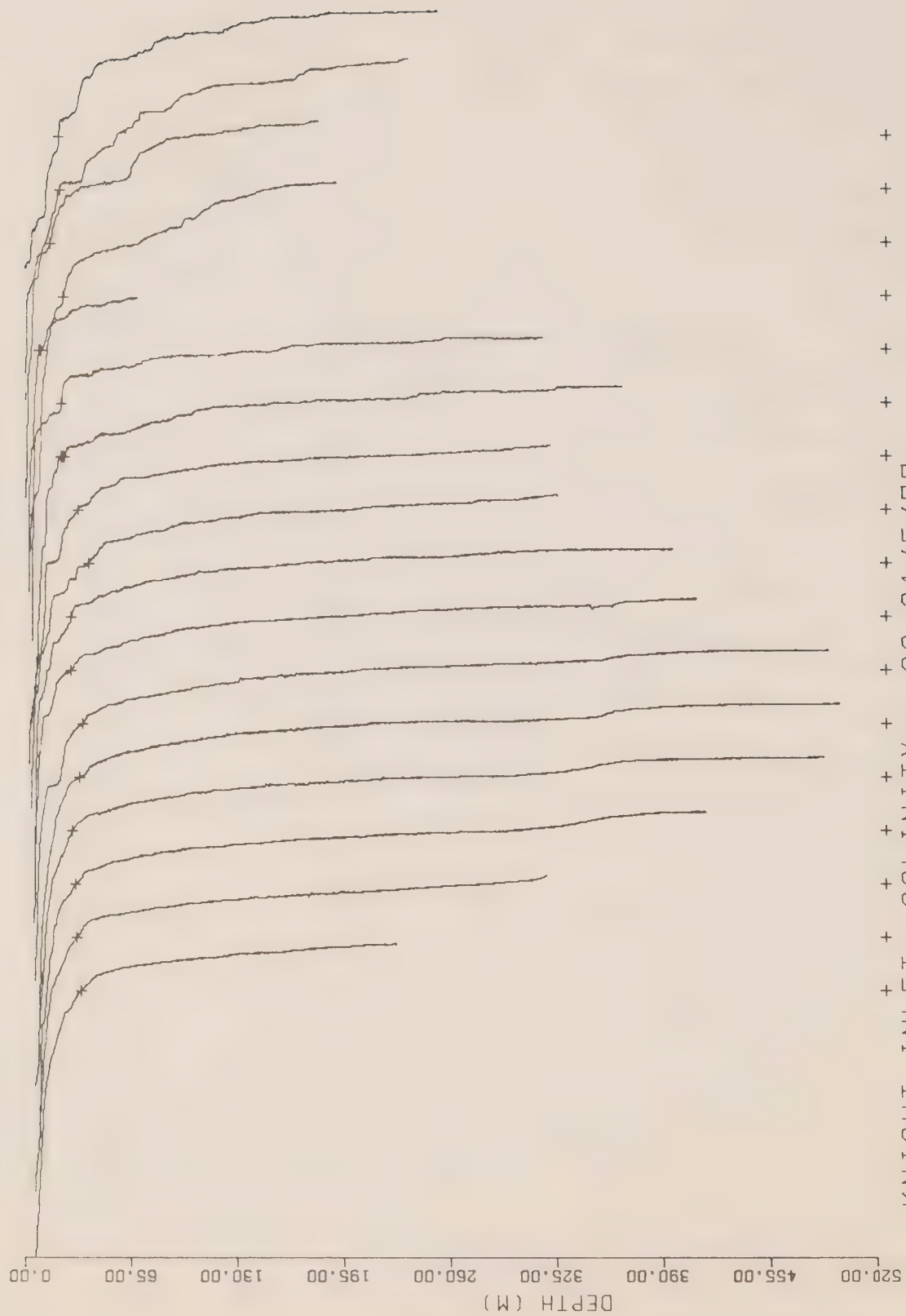


KNIGHT INLET: TEMPERATURE. 19-20/4/78.  
ACOUSTIC STNS: 1, 5, 7.  
└──=1.00 DEG +=7.5 C

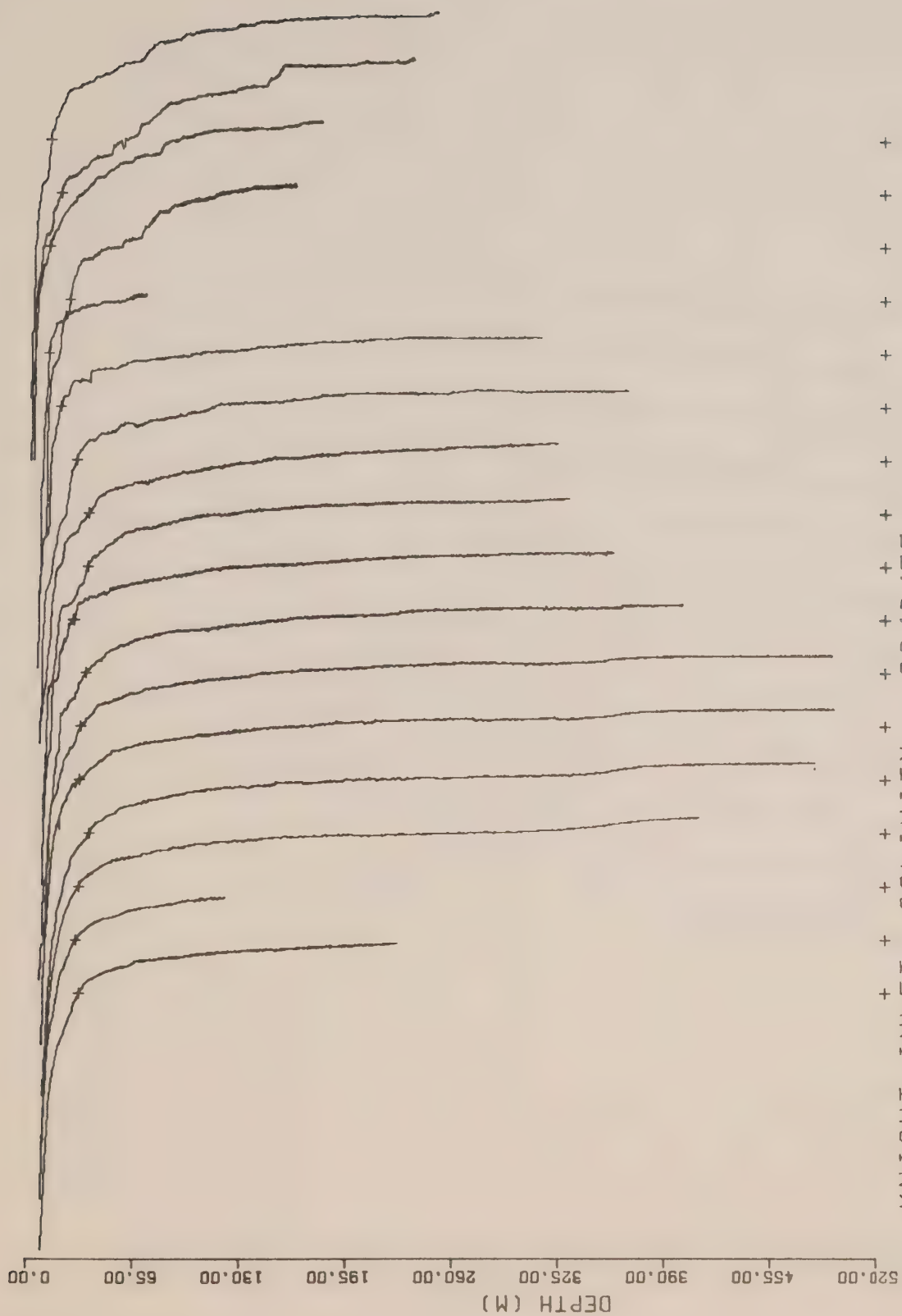


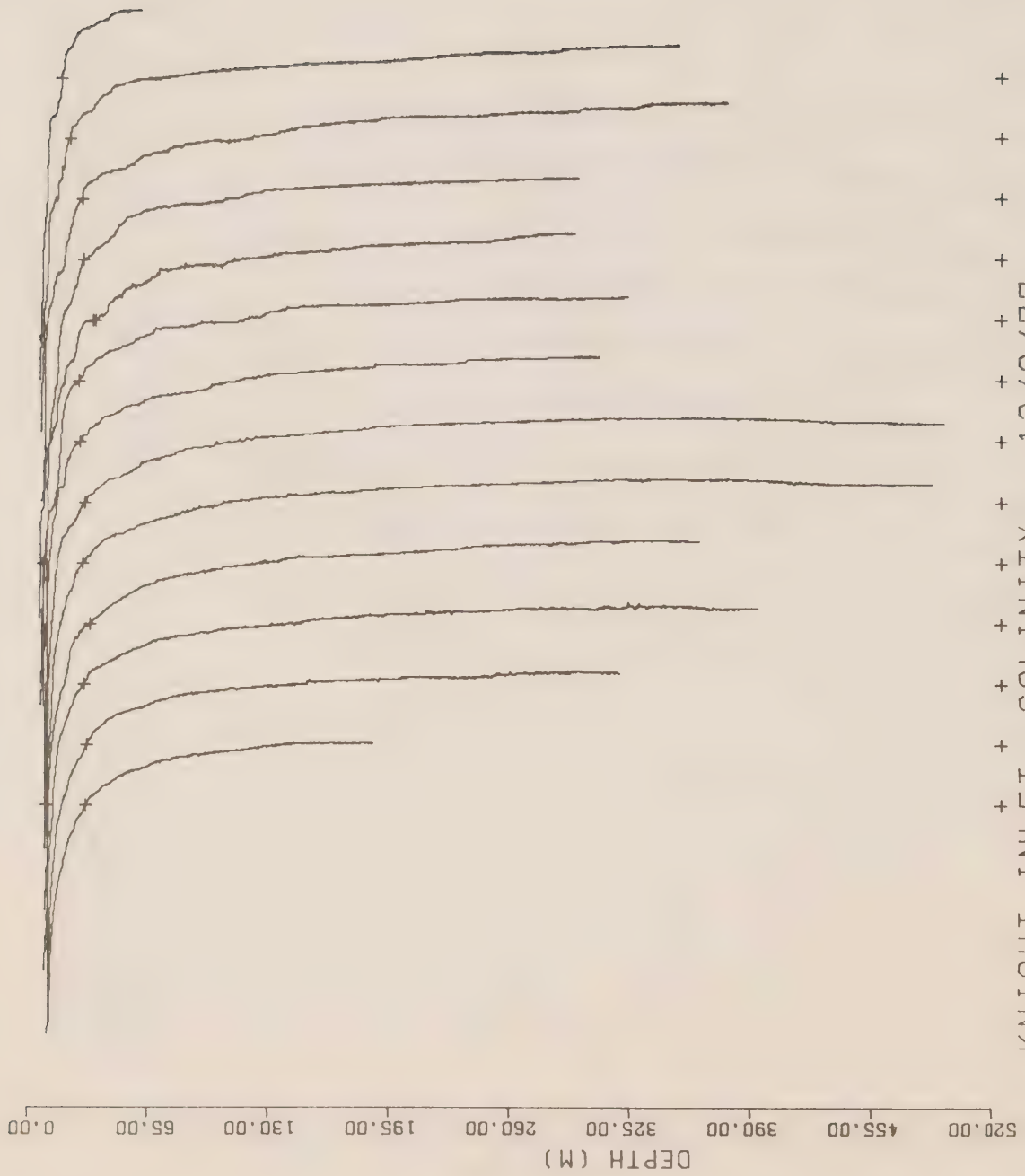


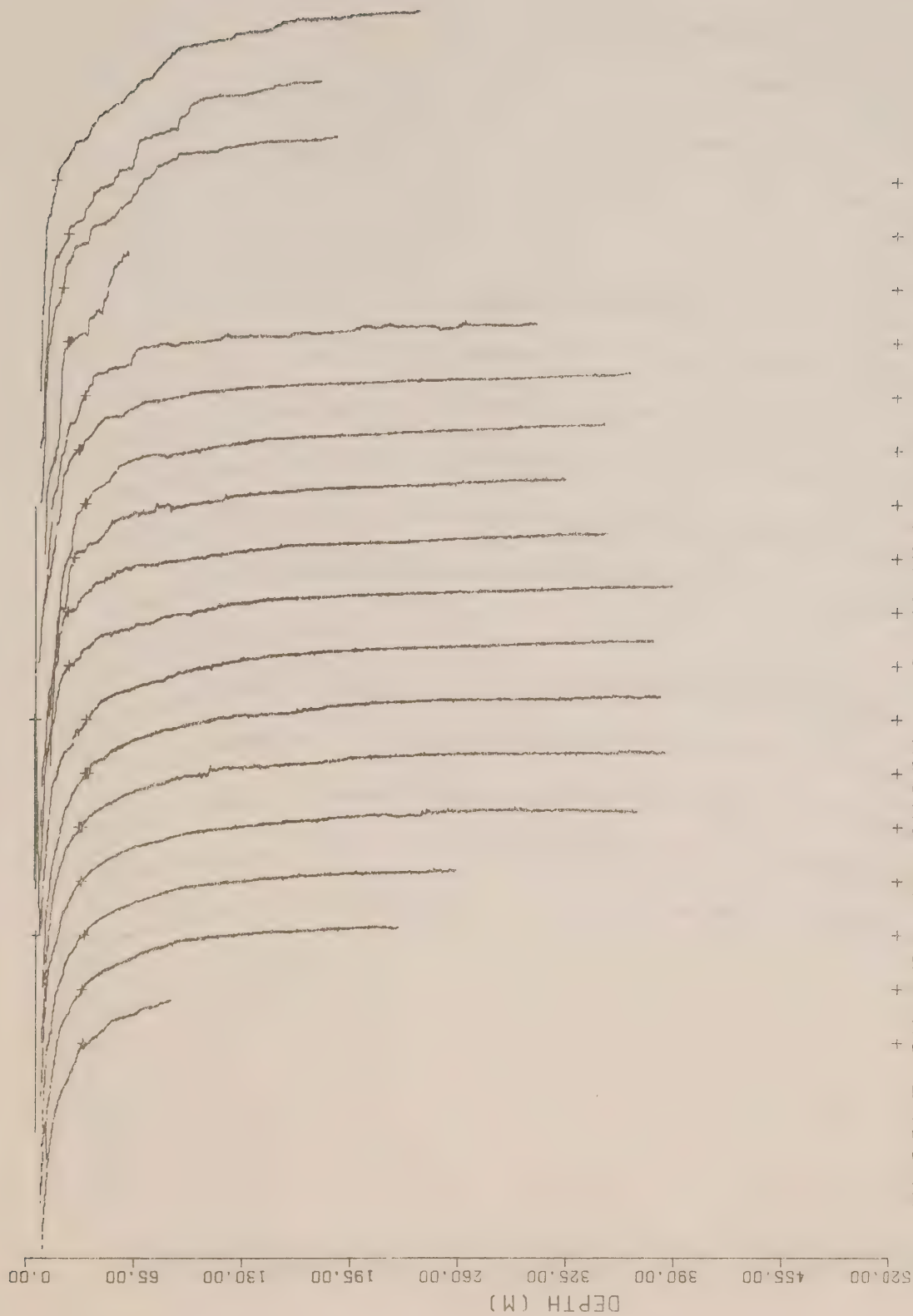




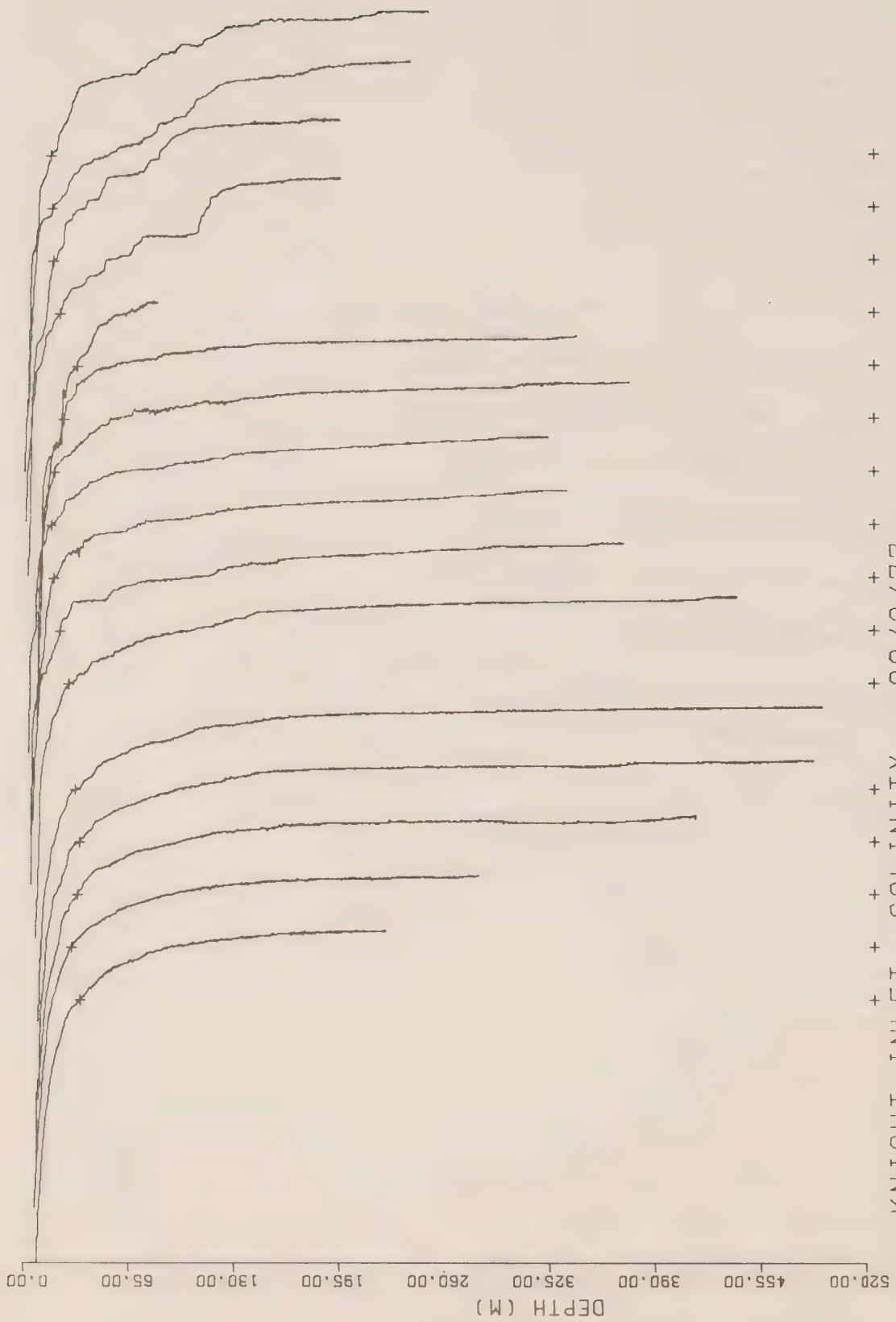




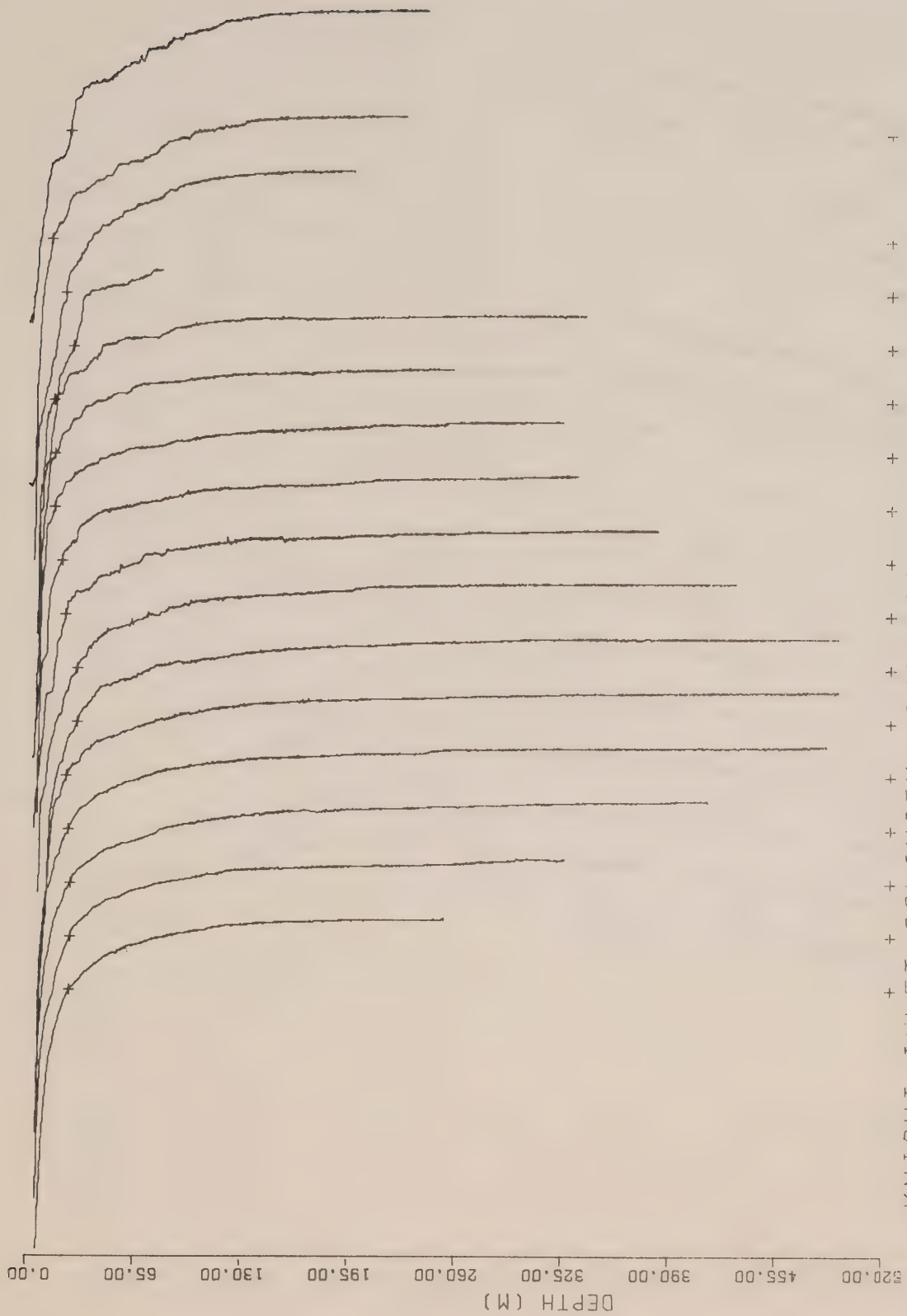




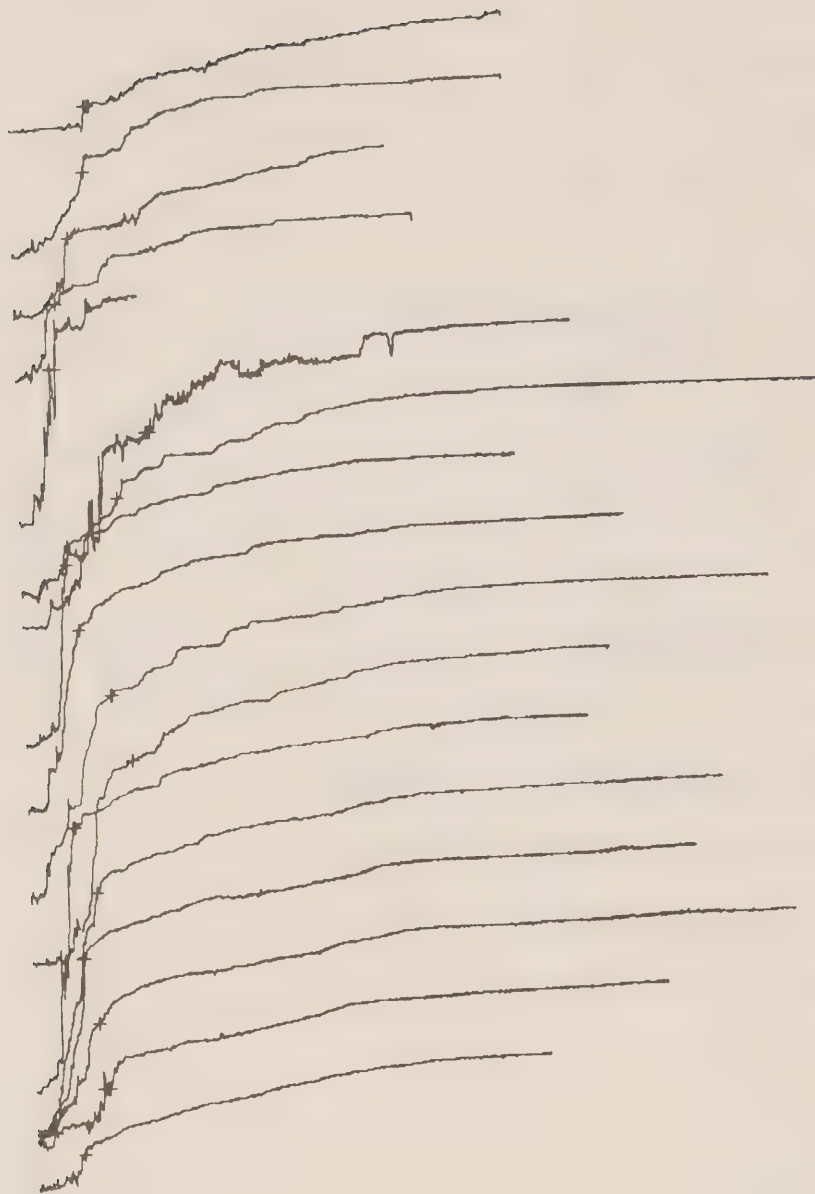
KNIGHT INLET: SALINITY: 24/8/77.  
 STNS: 0, 1-8, 10-12, 14-18  
 PPT = 1.00 PPT = 30.5 PPT



KNIGHT INLET: SALINITY. 28/9/77.  
 STNS: 1-5, 7-8, 10-12, 14-19  
 ] = 1.00 PPT + = 30.5 PPT







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WIGHT INLET: SALINITY. 8/12/77.

STNS: 1-8,10-12,14-19

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

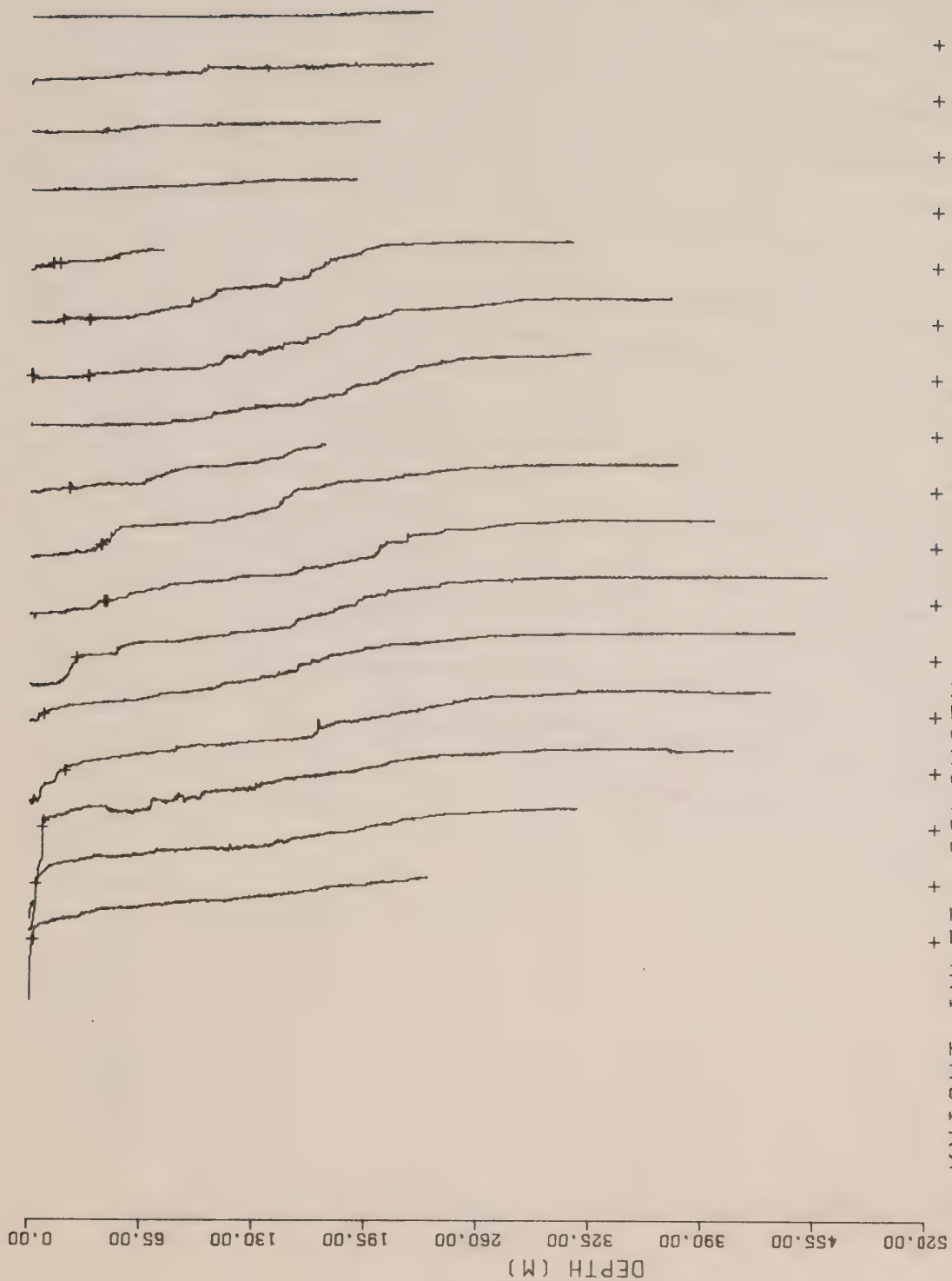
STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

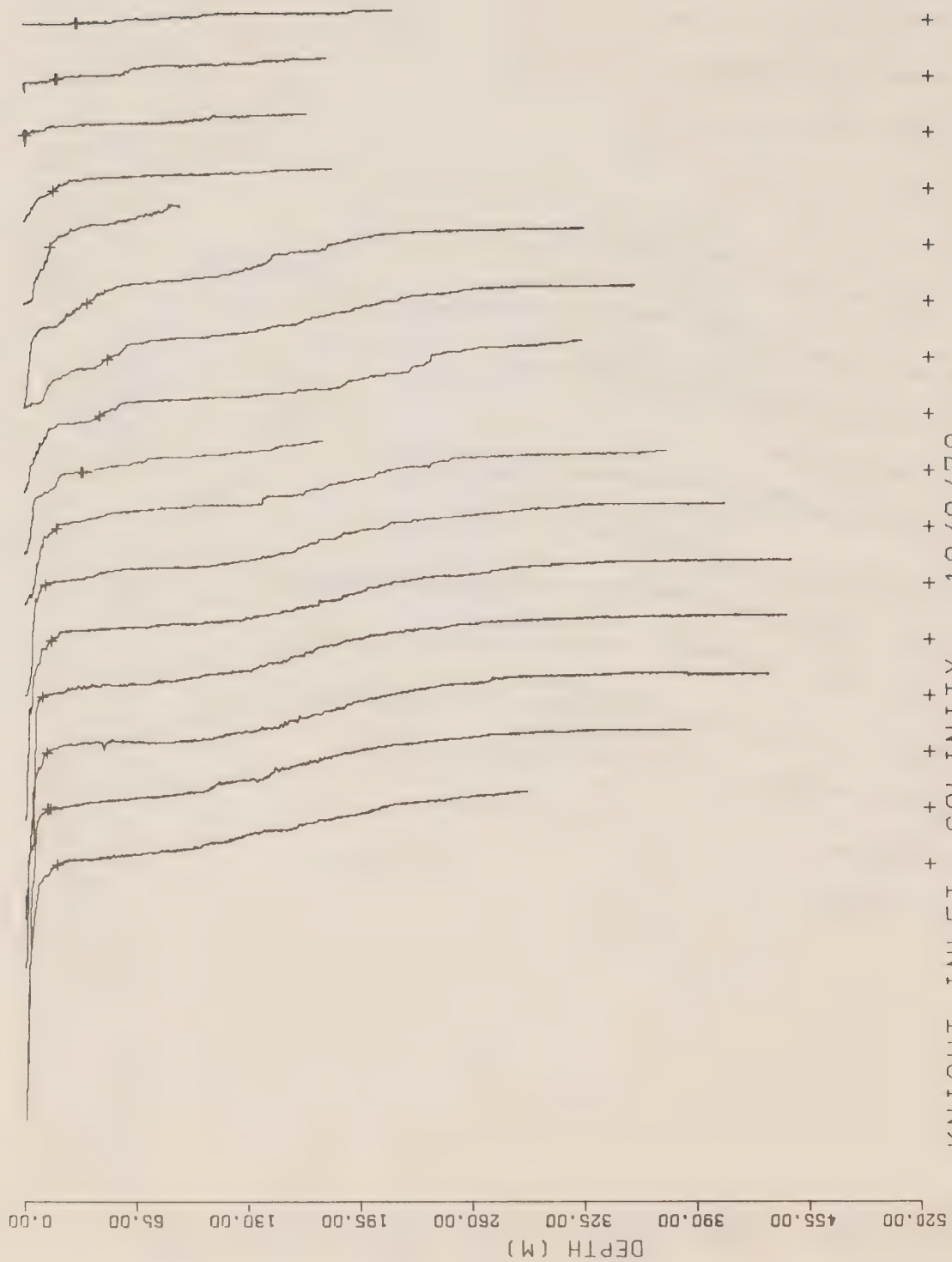
STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT

STNS: 1-8,10-12,14-19 PPT +=30.5 PPT



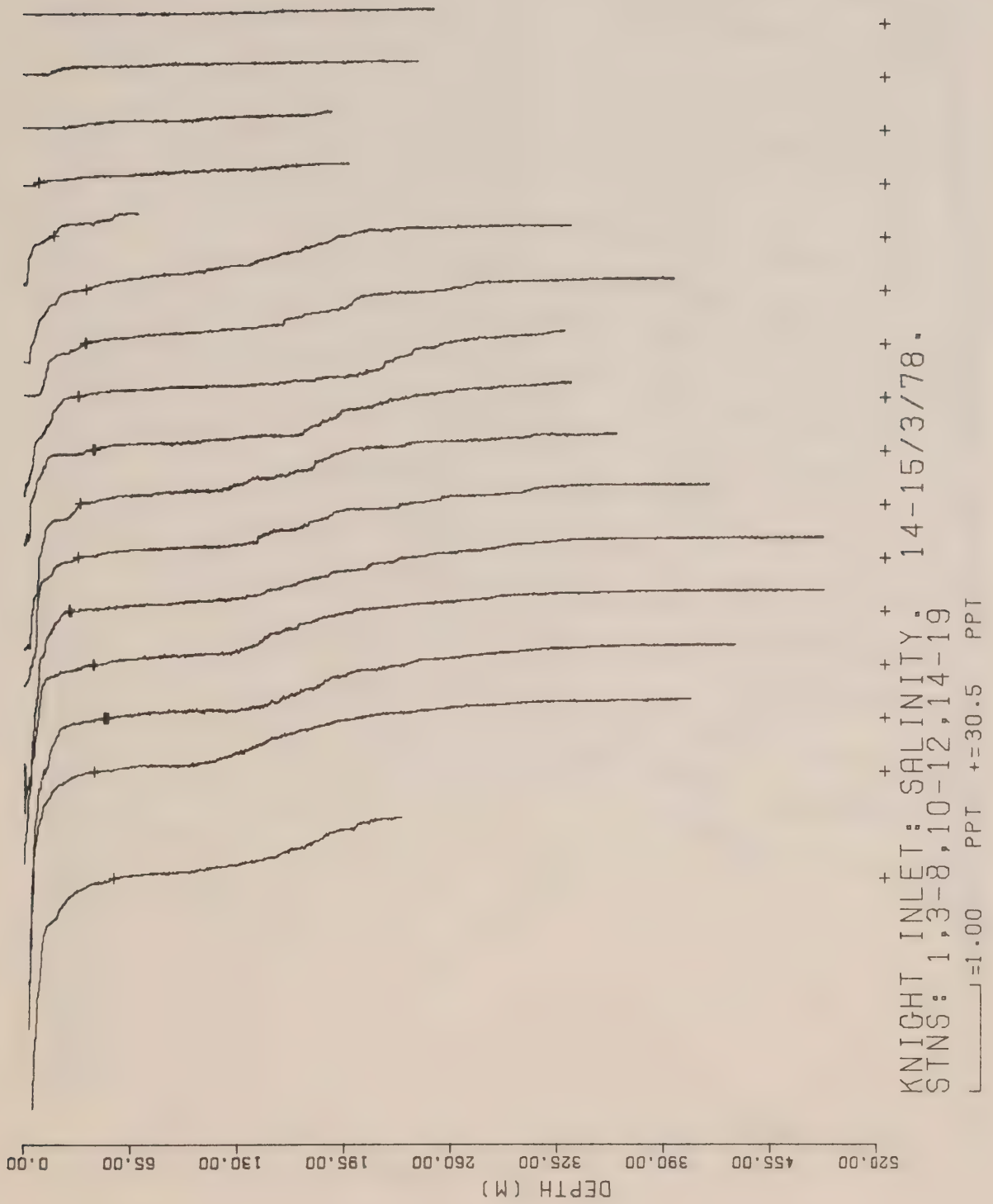


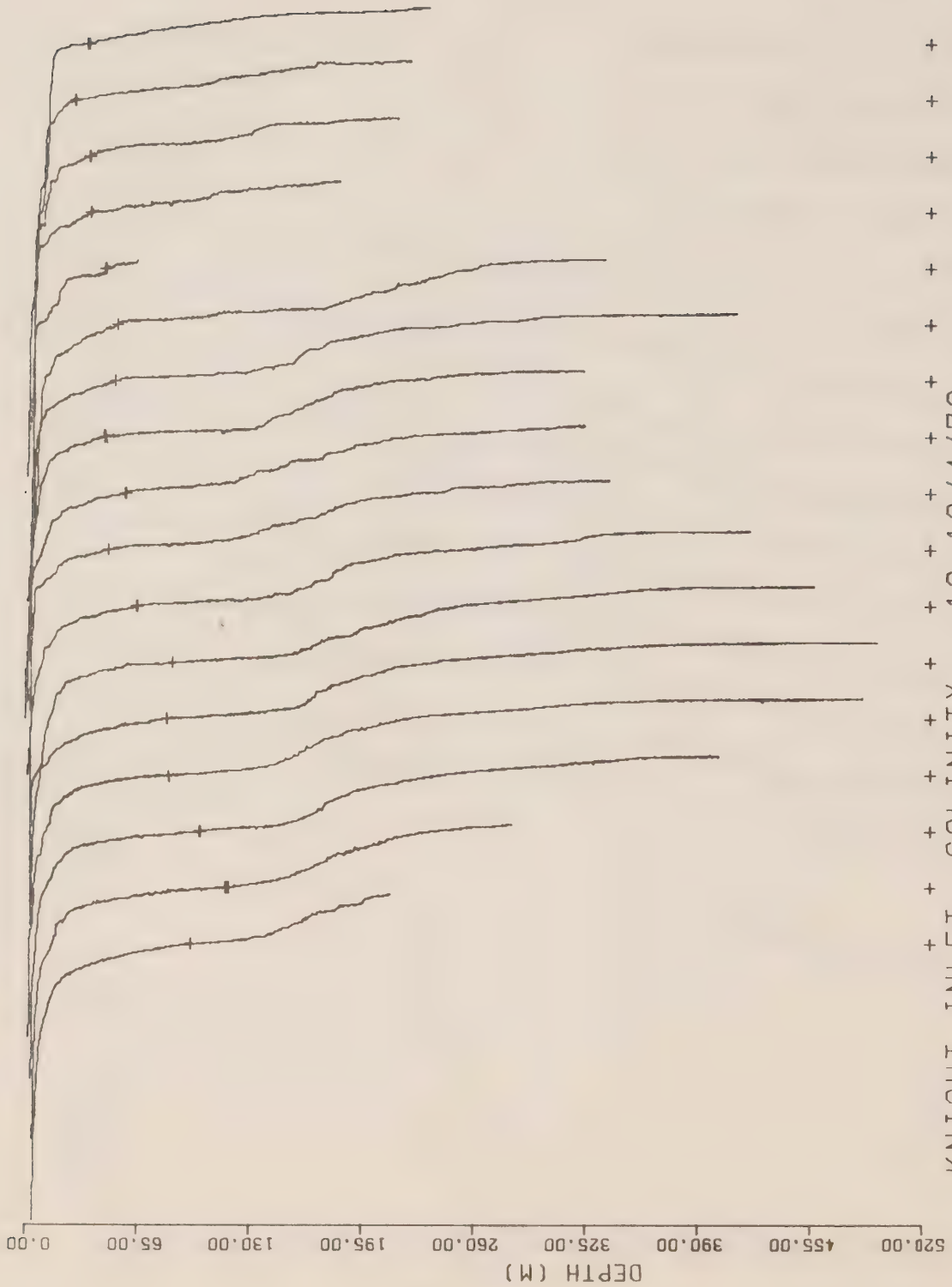
KNIGHT INLET: SALINITY: 18/2/78.

STNS: 2-8, 10-12, 14-19

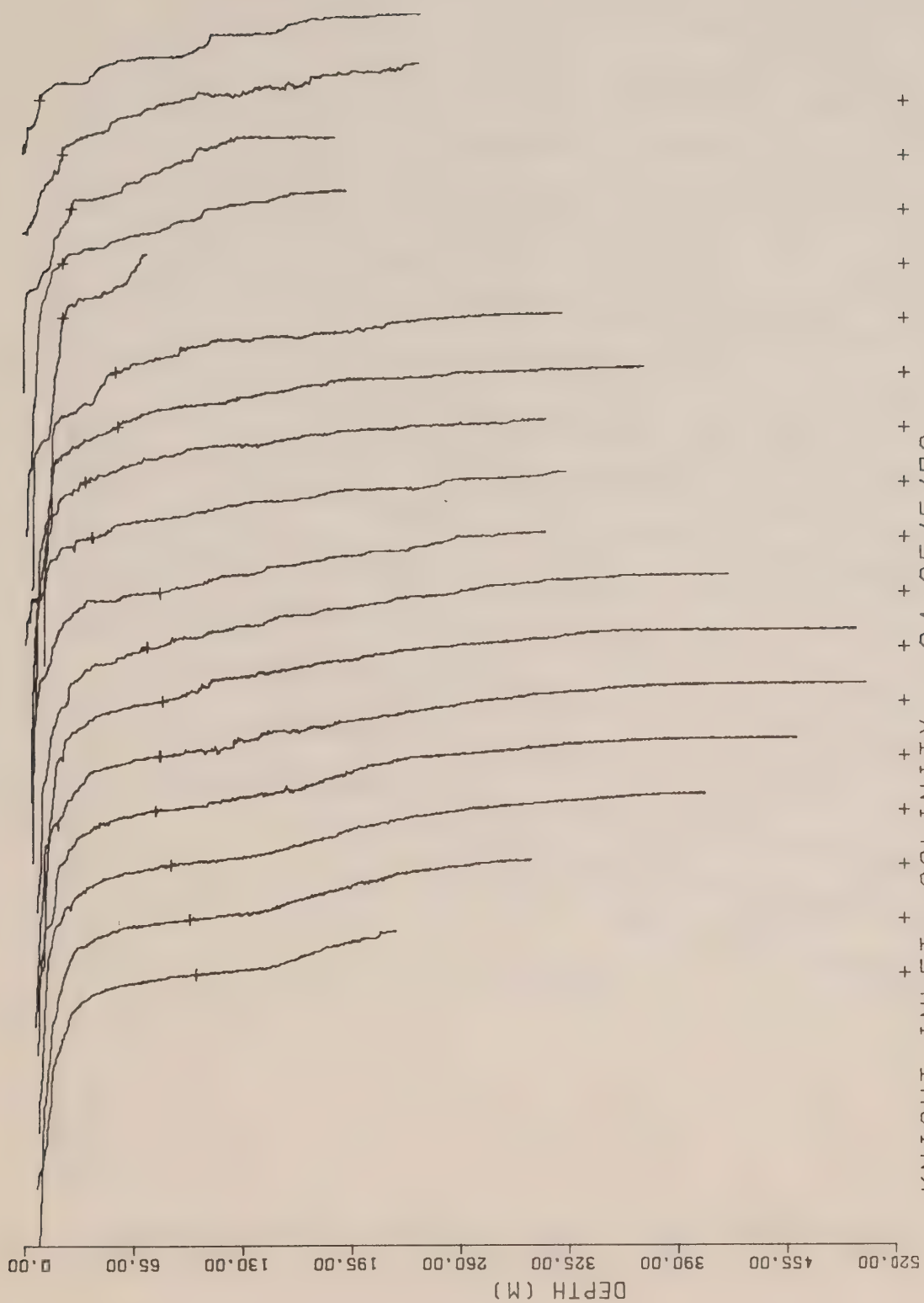
PPT ±30.5 PPT

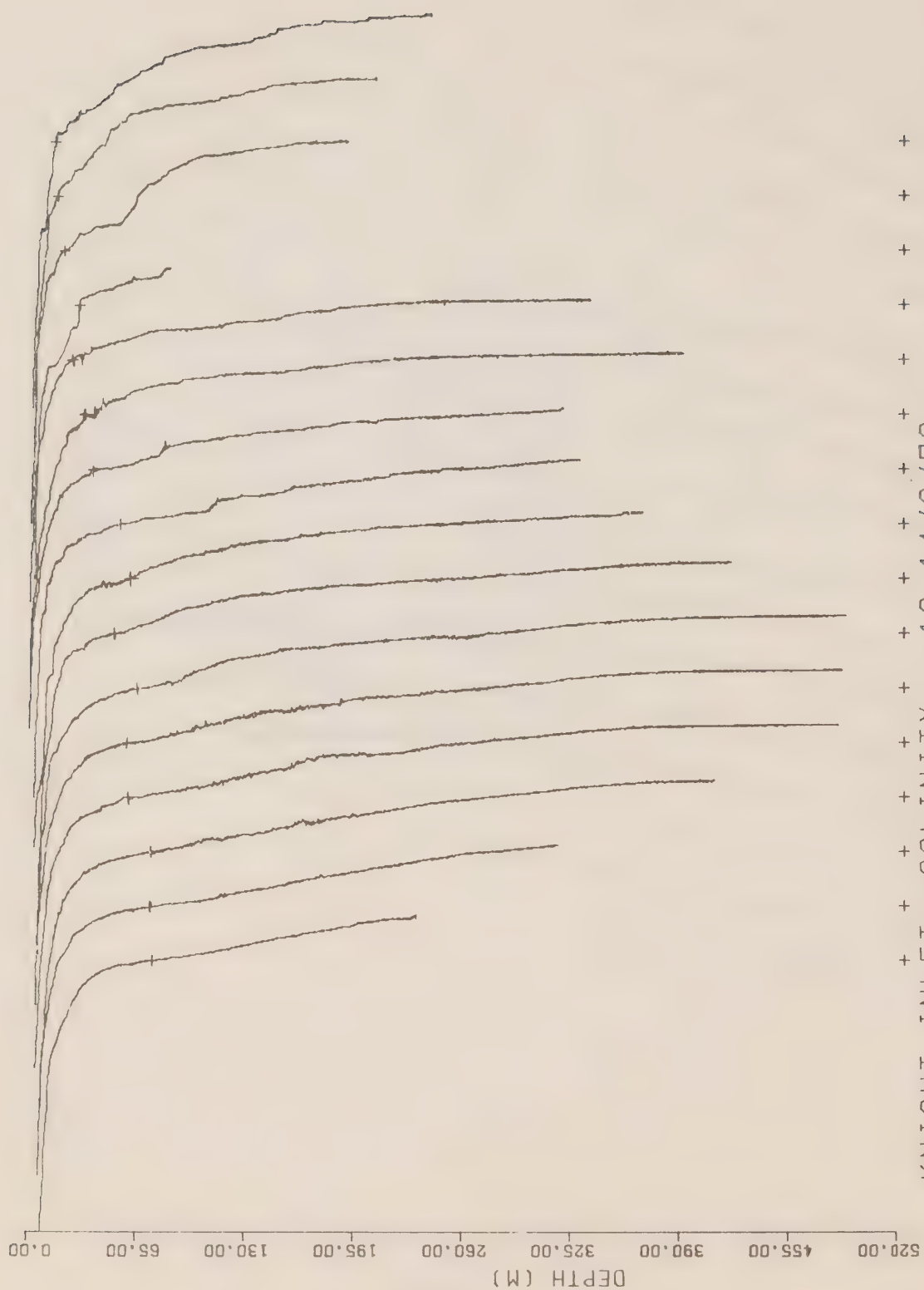
1.00

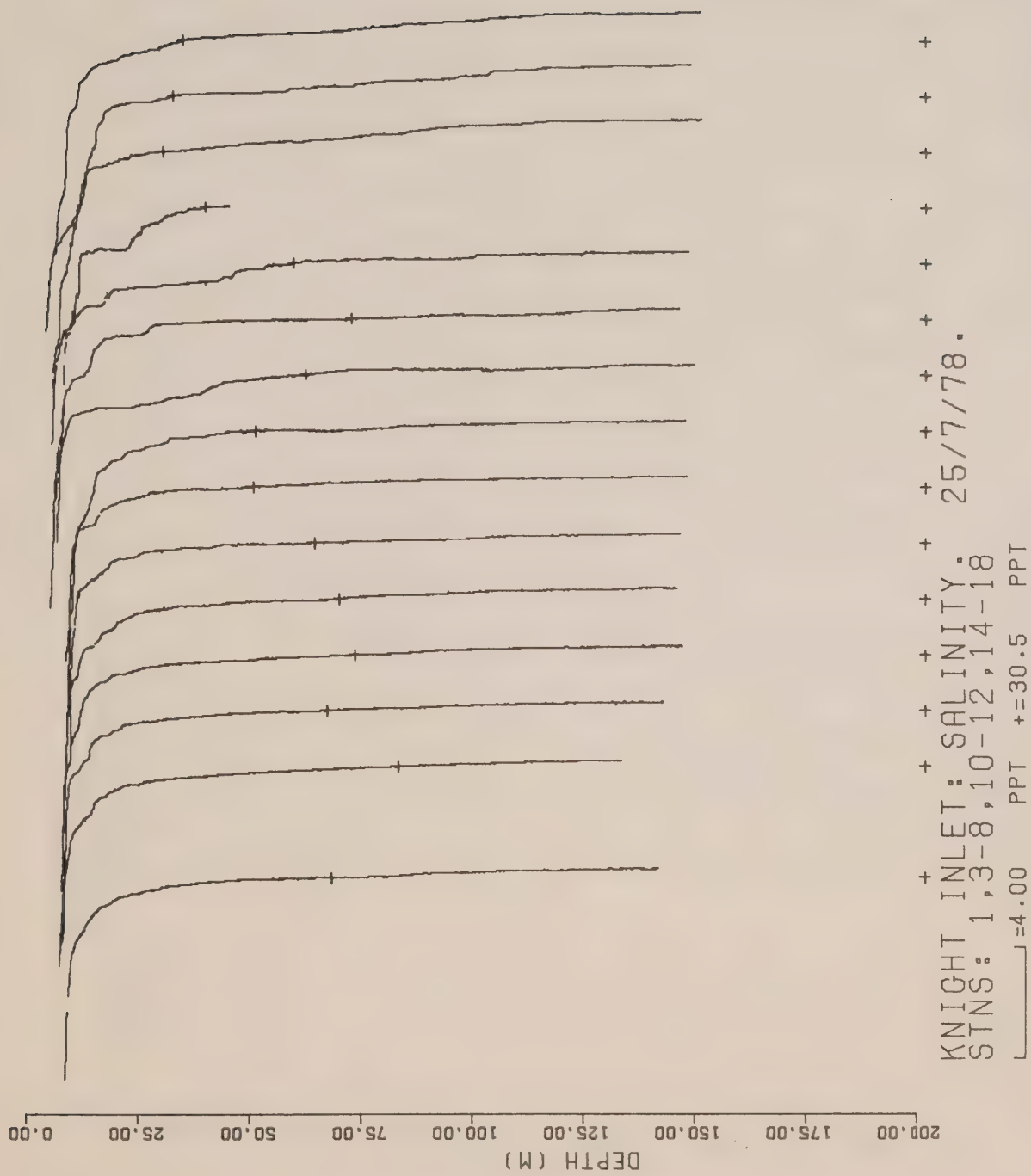


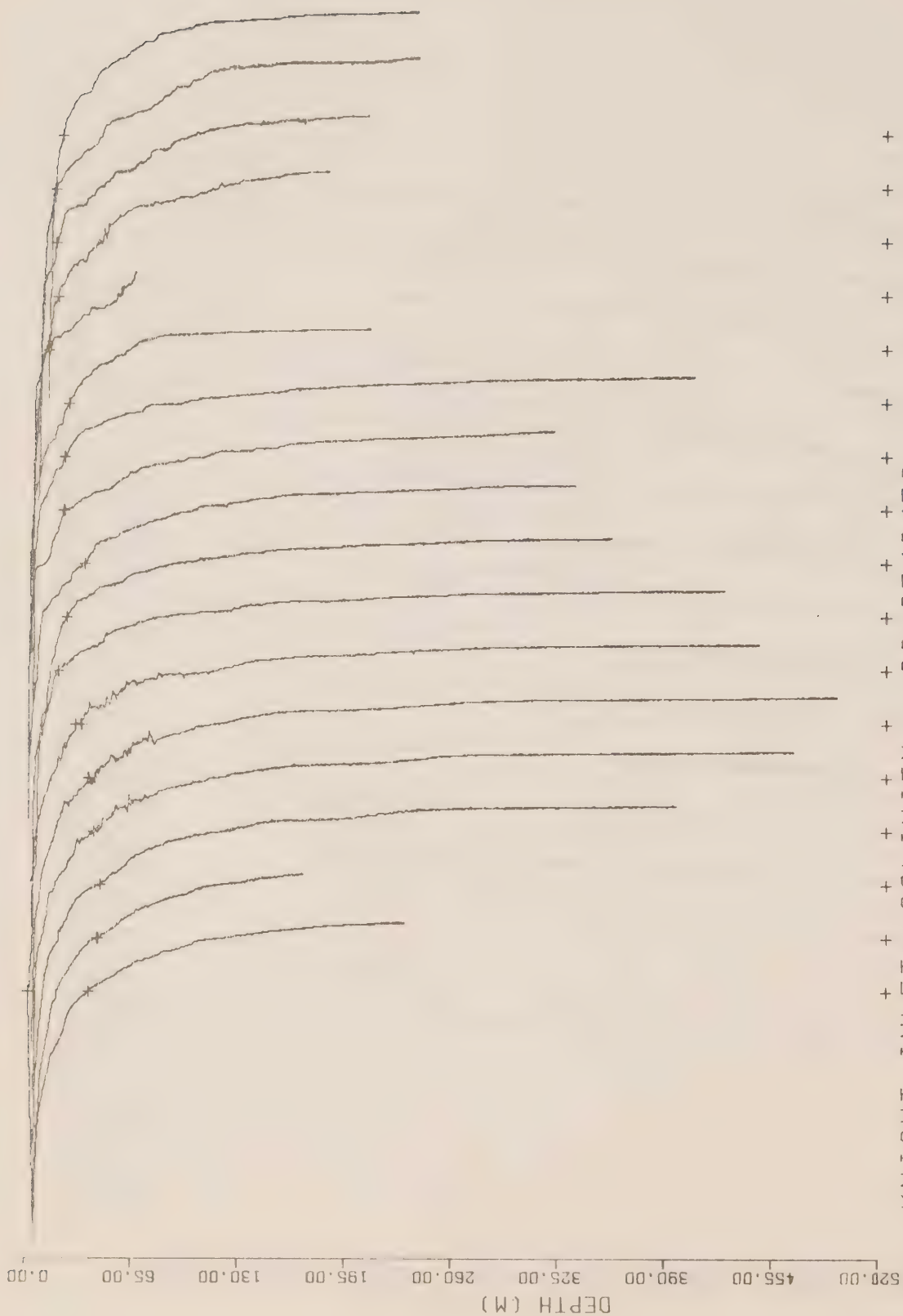








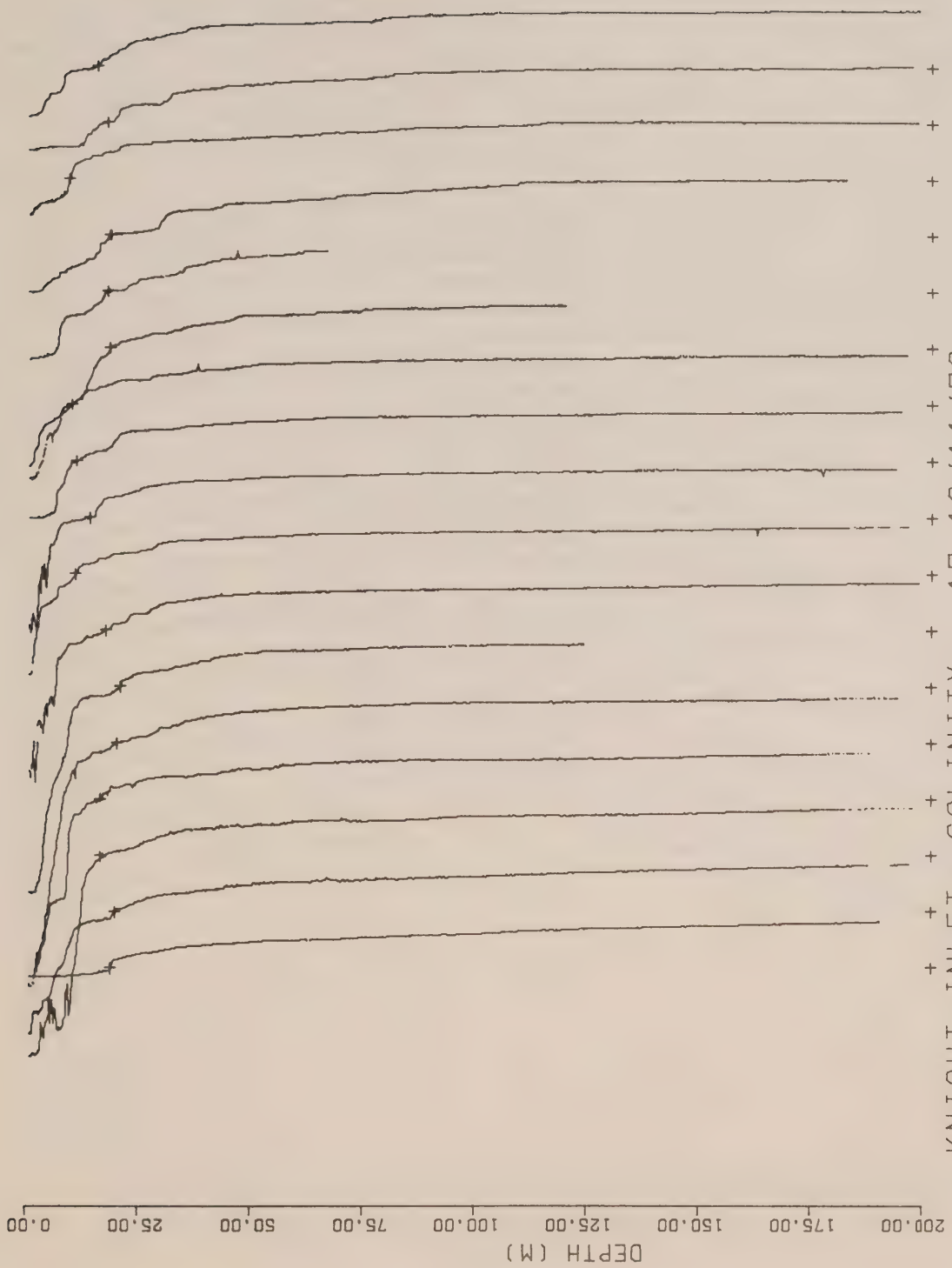




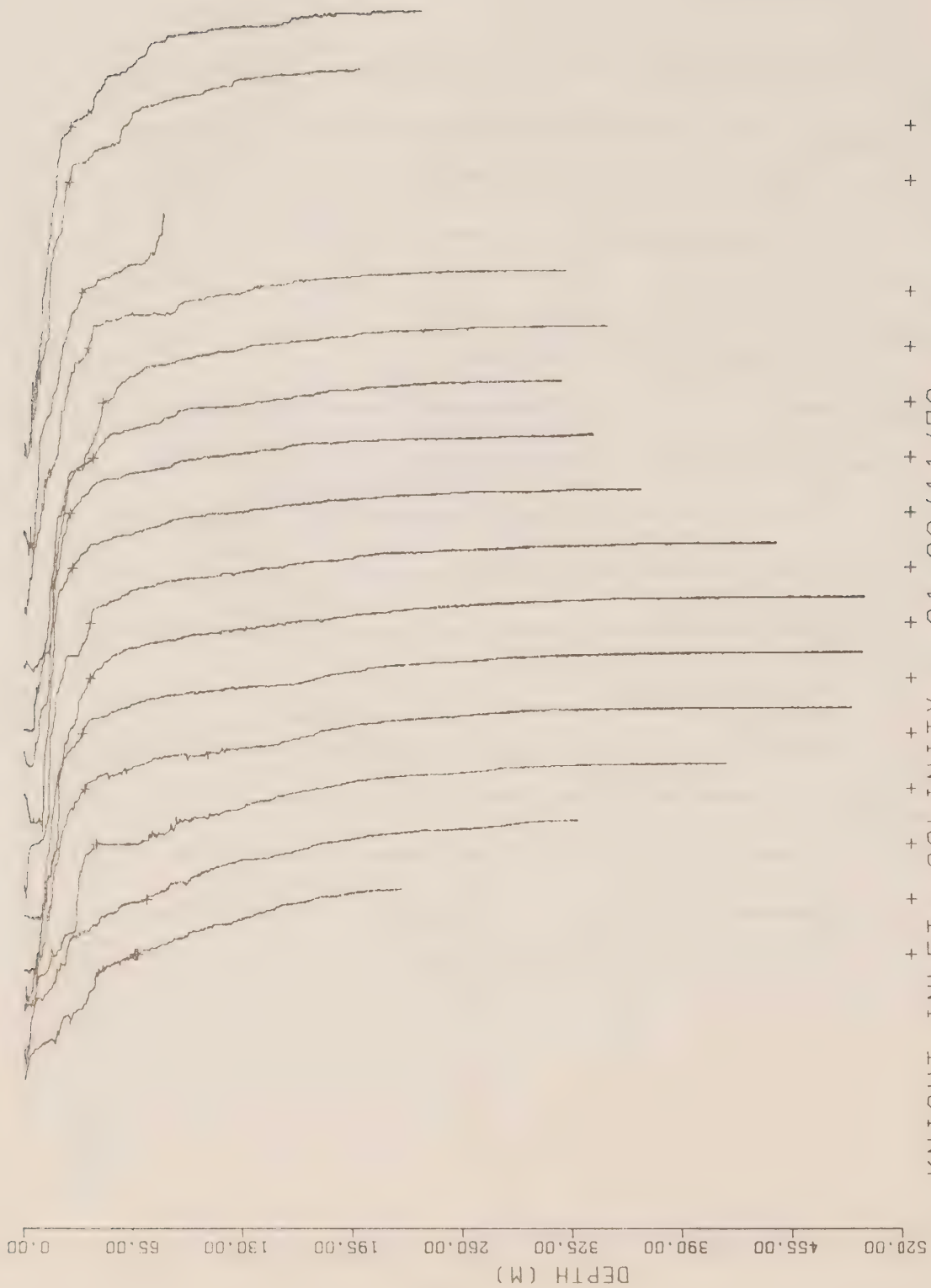
KNIGHT INLET: SALINITY. 26-27/9/78.

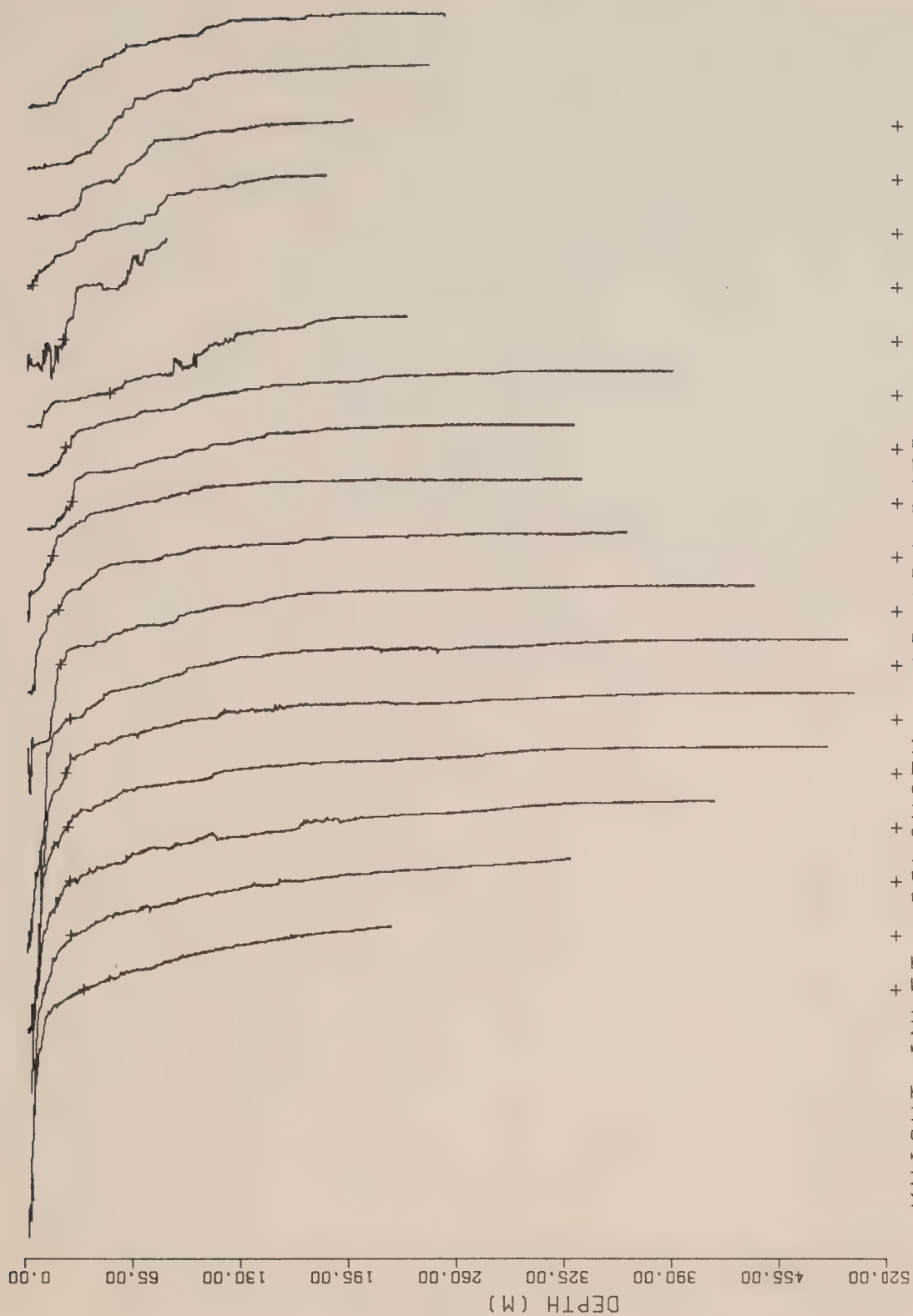
STNS: 1-8, 10-12, 14-19

1.00 PPT ±30.5 PPT











KNIGHT INLET: SALINITY. 19-20/4/78.  
 ACoustic STNS: 1,5,7.  
 [ ]=1.00 PPT +=30.5 PPT

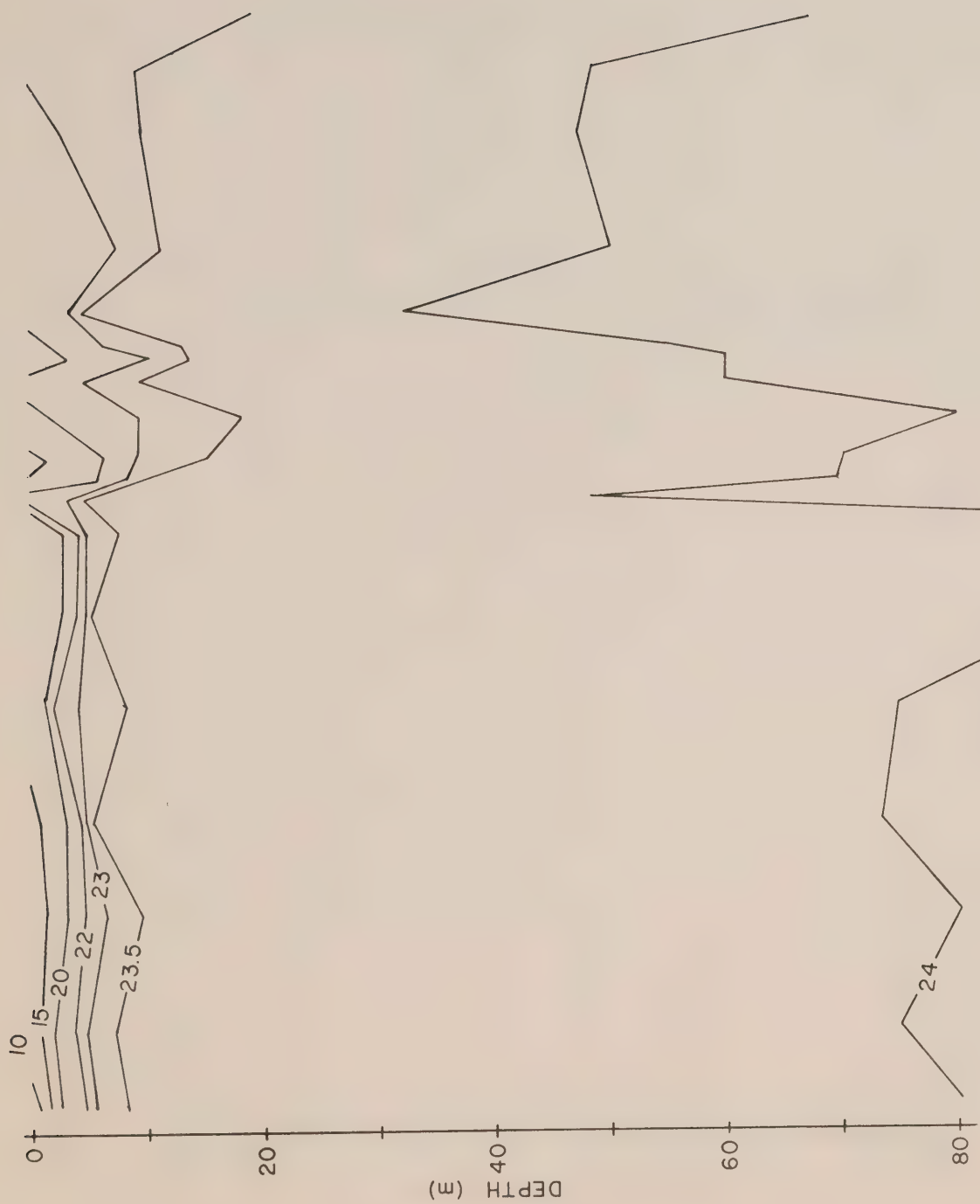


Figure 46: Sigma-T contour, 15-16/2/1977

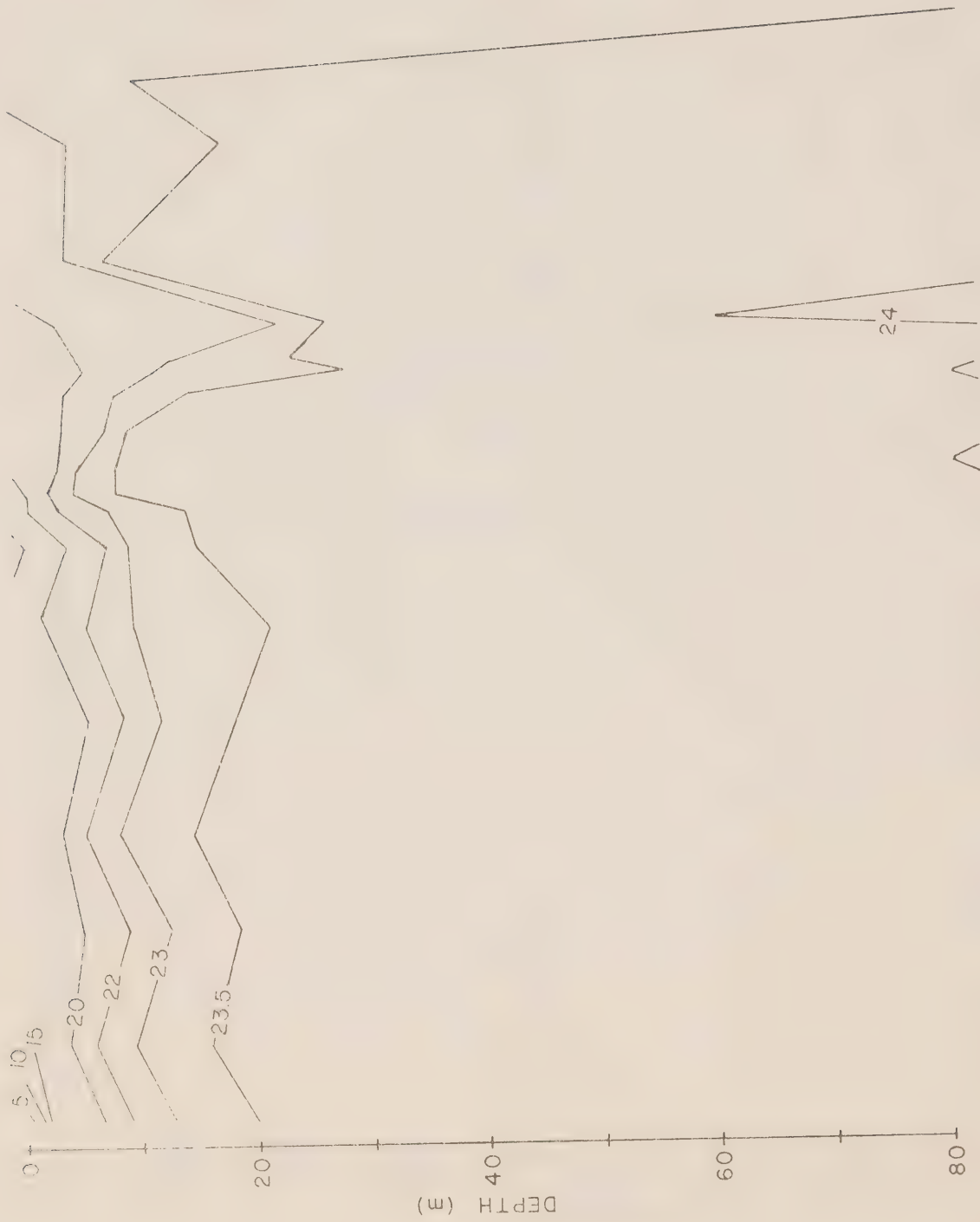


Figure 47: Sigma-T contour, 22-23/3/1977



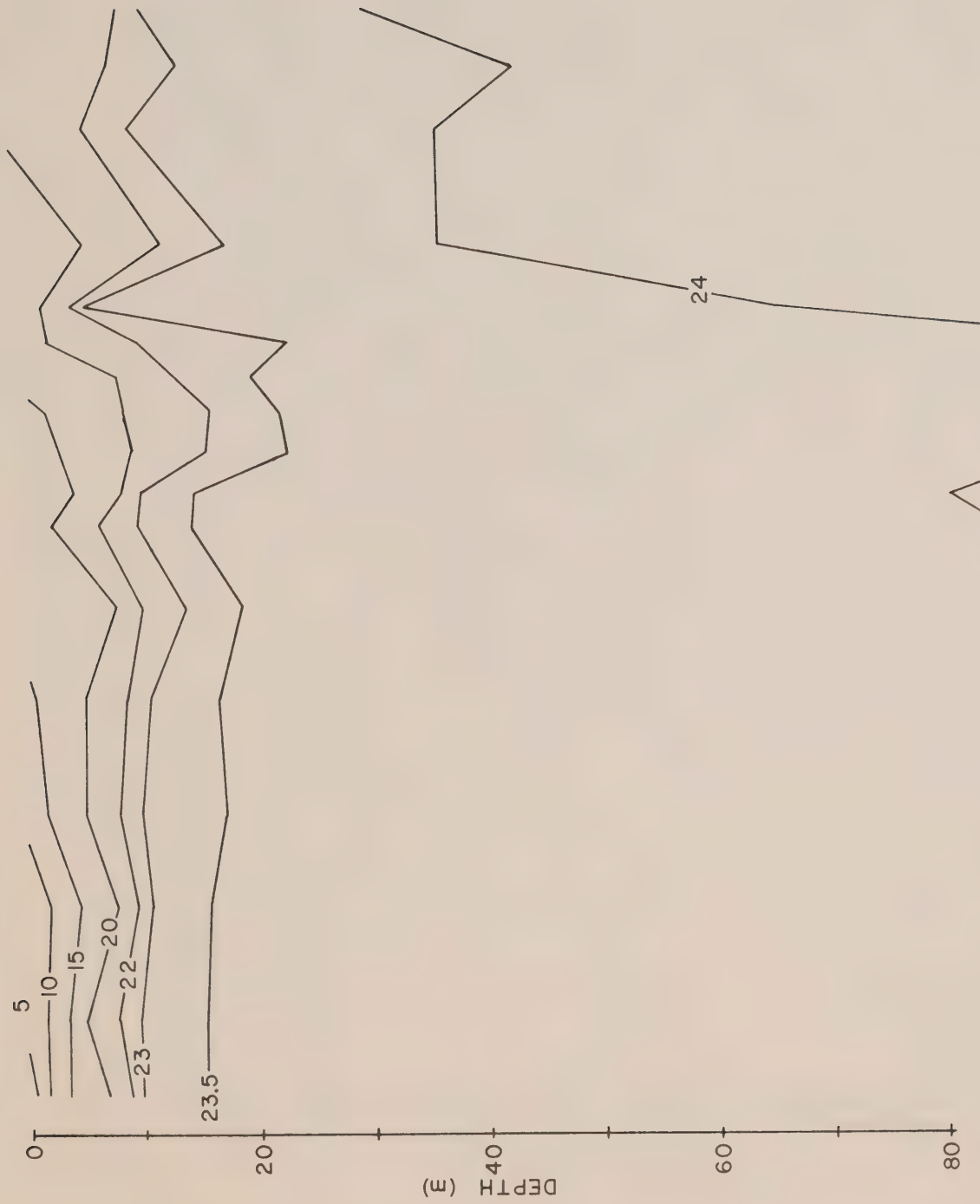


Figure 48: Sigma-T contour, 30/4/1977



Figure 49: Sigma-T contour, 30-31/5/1977



Figure 50: Sigma-T contour, 29/6/1977



Figure 51: Sigma-T contour, 13/8/1977



Figure 52: Sigma-T contour, 24/8/1977





Figure 53: Sigma-T contour, 28/9/1977



Figure 54: Sigma-T contour, 3/11/1977

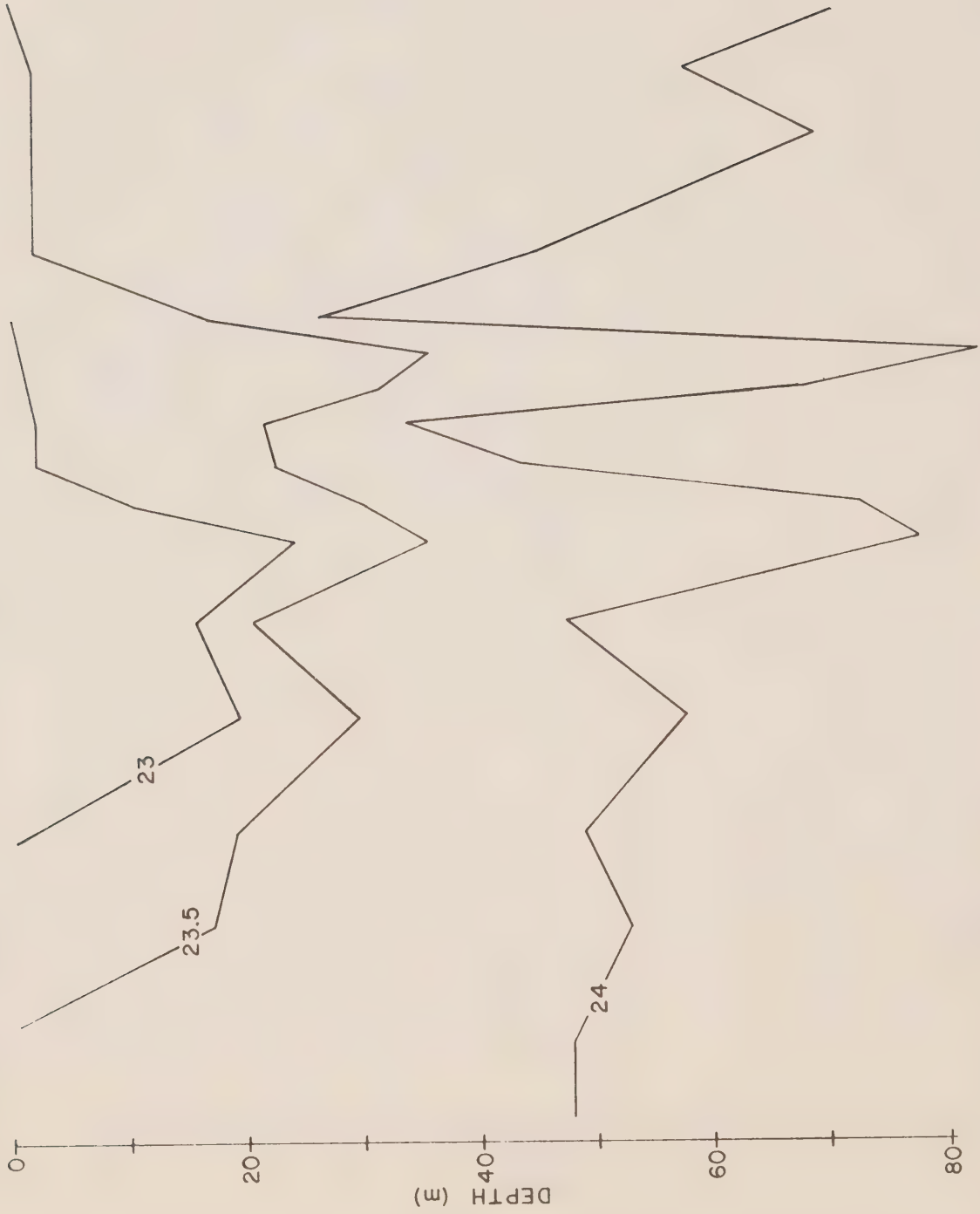


Figure 55: Sigma-T contour, 8/12/1977



Figure 56: Sigma-T contour, 18-19/1/1978



Figure 57: Sigma-T contour, 18/2/1978





Figure 58: Sigma-T contour, 14-15/3/1978



Figure 59: Sigma-T contour, 18-19/4/1978

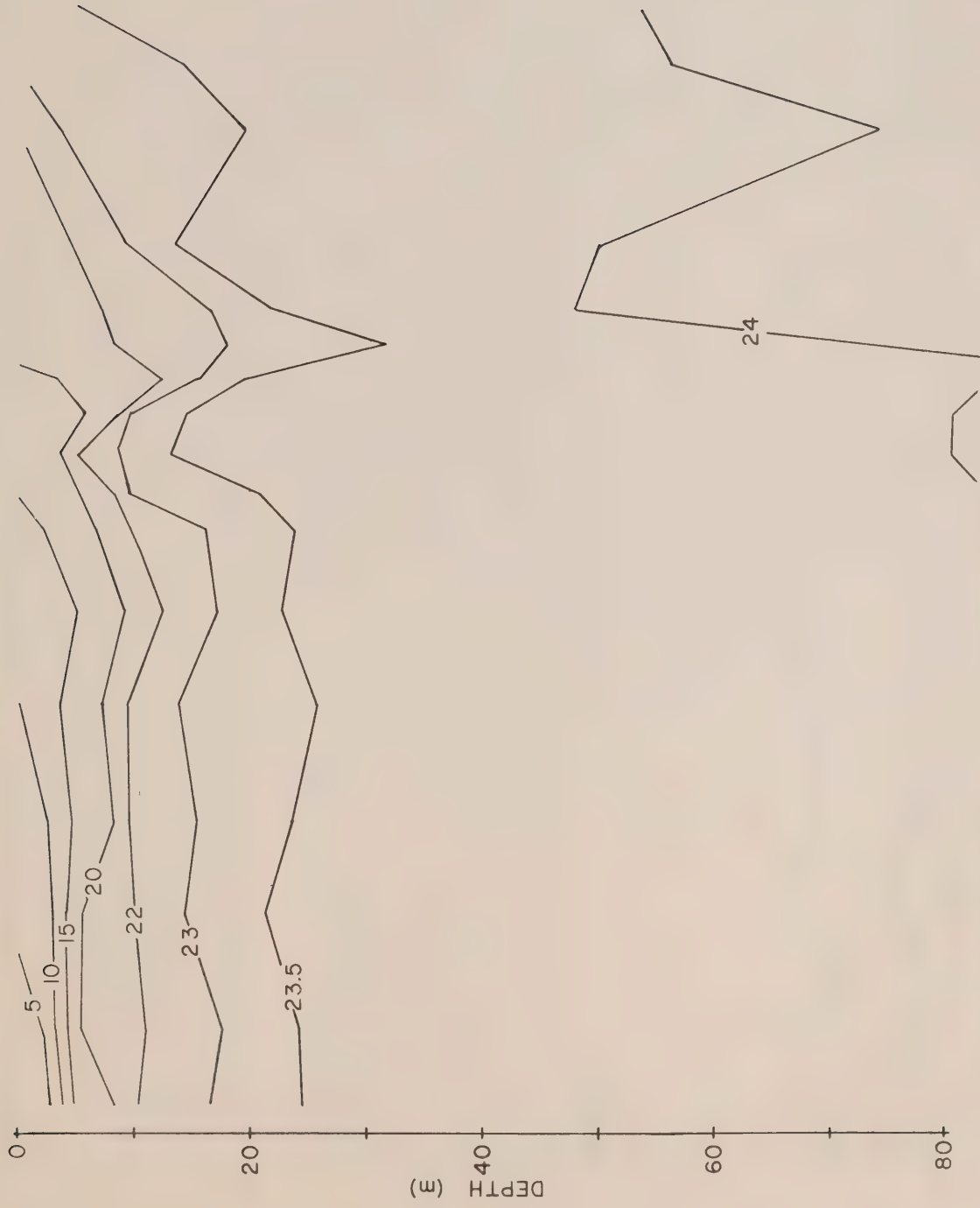


Figure 60: Sigma-T contour, 24-25/5/1978



Figure 61: Sigma-T contour, 13-14/6/1978

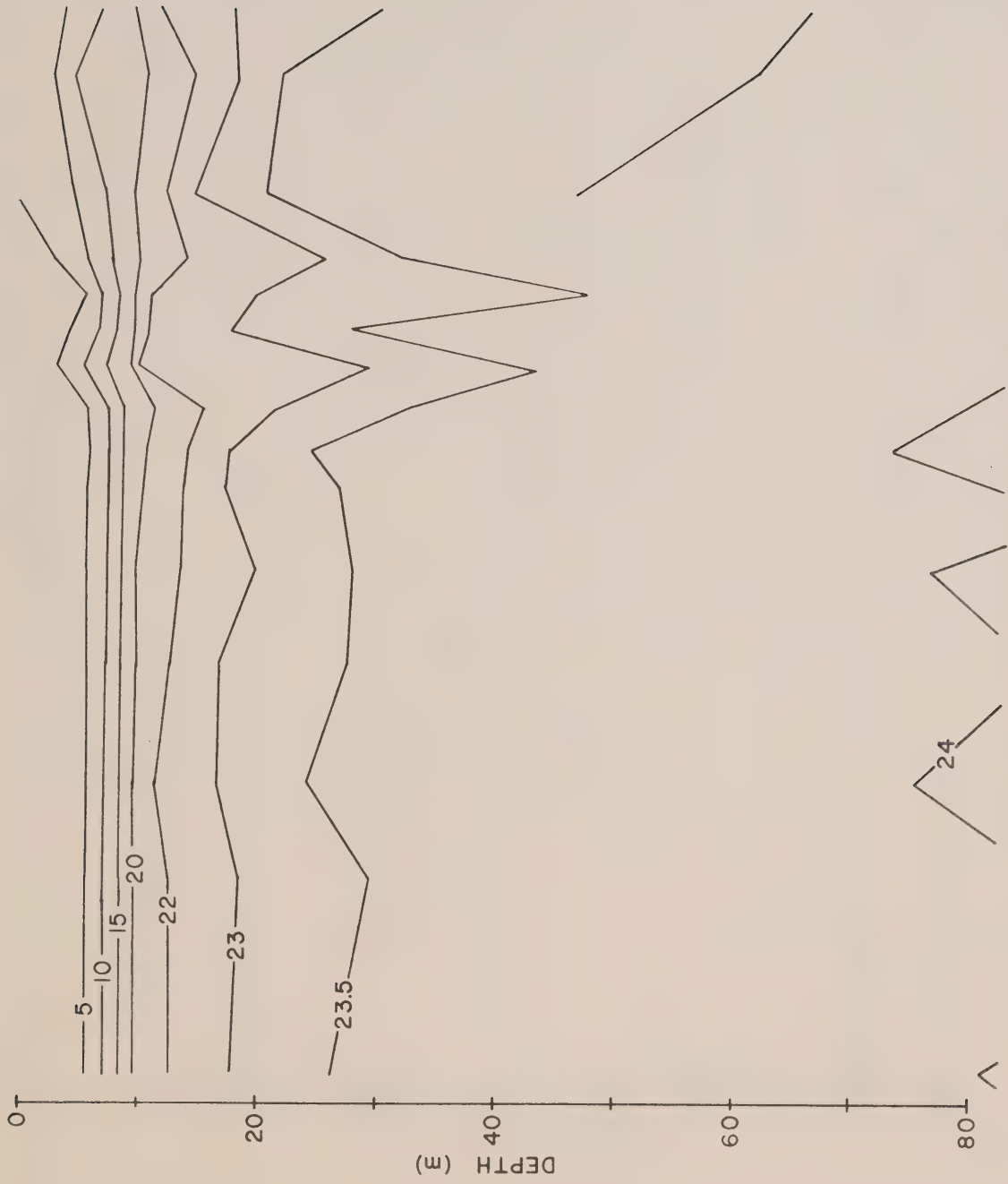


Figure 62: Sigma-T contour, 25/7/1978



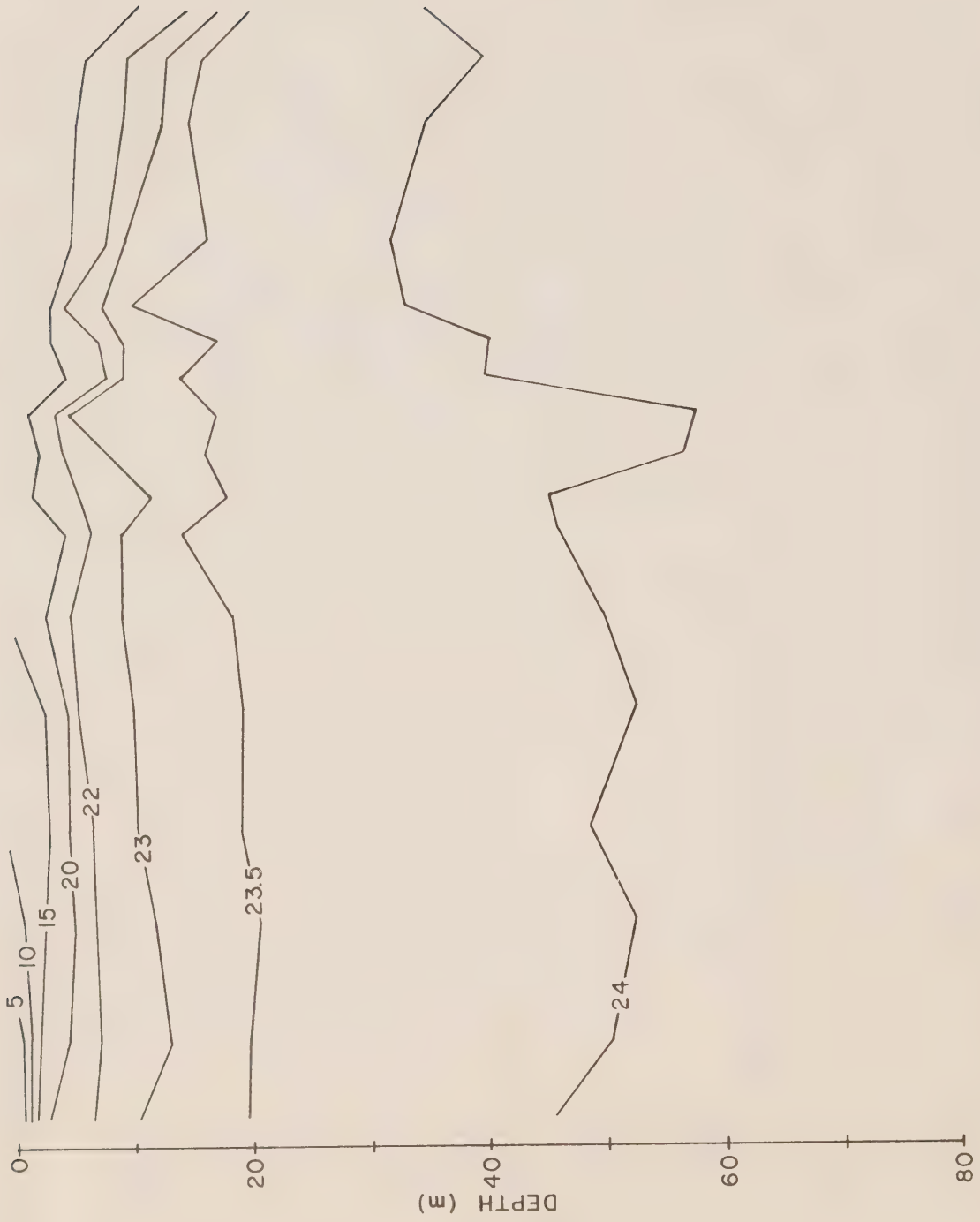


Figure 63: Sigma-T contour, 26-27/9/1978



Figure 64: Sigma-T contour, 17-18/11/1978



Figure 65: Sigma-T contour, 21-22/11/1978

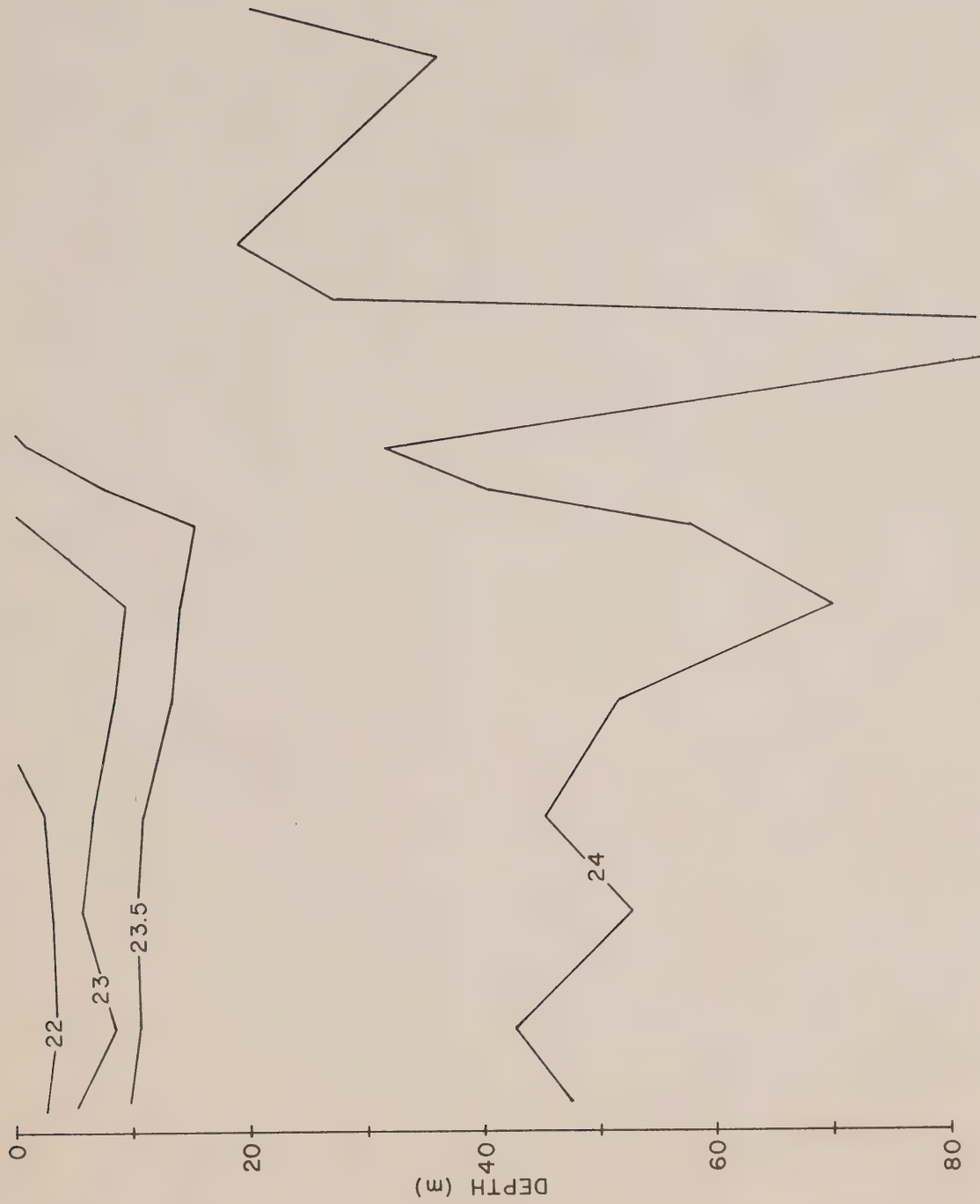


Figure 66: Sigma-T contour, 12-13/12/1978









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**OCEANOGRAPHIC OBSERVATIONS  
IN KNIGHT INLET, B.C.  
VOLUME I: Salinity/Temperature Profile  
PART III: 1979**

by  
Coastal Zone  
Oceanography Section

**INSTITUTE OF OCEAN SCIENCES  
Sidney, B.C.**



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-78/22

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OCEANOGRAPHIC OBSERVATIONS IN KNIGHT INLET, B.C.

VOLUME I: Salinity/Temperature Profile

PART III: 1979

by

Coastal Zone Oceanography Section

Institute of Ocean Sciences

Sidney, B.C.

1980





ABSTRACT

Salinity/temperature profiles obtained in March, June, July and December, 1979, in Knight Inlet, B.C. are presented in standard depth form and illustrated by plots.



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## INTRODUCTION

This report summarizes data gathered in 1979 using a CTD (conductivity-temperature-depth probe) in Knight Inlet, British Columbia. The CTD study was part of a larger program to study the general physical oceanography of Knight Inlet; summaries of other data collected (tide gauge, current meter, etc.) will be published in subsequent reports.

Raw data from the PRODAS (programmable data acquisition system) was processed on the Univac 1106 computer at the Institute of Ocean Sciences, Patricia Bay. Processing involved the application of appropriate calibration and storage on magnetic tapes for further analysis. All data were stored on 800 BPI, 9-track magnetic tapes. Preceding the calibrated data records is a header which describes the data set. The CTD data described in this report is available on magnetic tapes; details concerning the location of specific files can be obtained from Coastal Zone Oceanography.

For presentation in this report, samples have been taken at discrete intervals and values of pressure, salinity, temperature, sigma-t and Brunt-Väisällä frequency printed for each depth sampled. The Brunt-Väisällä frequency is computed by taking differences over a depth range of 2 metres. If the calculation indicates a local instability, the calculation is repeated with a depth range of 10 metres, and the resulting value is marked with the symbol \*. The units of Brunt-Väisällä frequency are cycles per hour.

## ACKNOWLEDGEMENTS

The work was carried out by the personnel of the Coastal Zone Oceanography. We would like to acknowledge the assistance of the officers and crew of the many vessels we have used in the year.



## KNIGHT INLET CTD STATIONS

<u>CODE NO.</u>	<u>STATION</u>	<u>LATITUDE N</u>	<u>LONGITUDE W</u>
0	KN 12	51° 04.0'	125° 36.0'
1	KN 11	51° 02.3'	125° 33.8'
2	KN 10	50° 58.9'	125° 33.2'
3	KN 9	50° 54.3'	125° 32.8'
4	KN 8	50° 52.4'	125° 38.5'
5	KN 7	50° 47.9'	125° 37.0'
6	KN 6	50° 45.1'	125° 41.0'
7	SALLIE PT.	50° 41.9'	125° 43.5'
8	SIWASH BAY	50° 41.7'	125° 46.6'
9	KN 5	50° 41.6'	125° 47.2'
10	TOMAKSTUM IS.	50° 41.6'	125° 49.3'
11	MT. SAWYER	50° 41.1'	125° 51.9'
12	ROUGH PT.	50° 40.7'	125° 54.4'
13	KN 4	50° 40.8'	125° 56.3'
14	CAMP PEAK	50° 40.6'	125° 57.2'
15	HOEYA HD.	50° 40.6'	125° 59.5'
16	KN 3	50° 39.9'	126° 04.2'
17	MONTAGU PT.	50° 39.2'	126° 12.5'
18	KN 2	50° 38.5'	126° 17.3'
19	KN 1	50° 38.1'	126° 25.2'





CRUISE NO. 79-02 (No. 22)



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 38.10

DATE 5/ 3/79

TIME (PST) 1749

TAPE: CZ0/79/ 2-025

LONG W126 25.20

PASS NO. 1

STN: 19 - KN1

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	31.16	6.54	24.48	1.07*
2.0	31.16	6.54	24.48	.06*
5.0	31.15	6.54	24.48	+
10.0	31.15	6.54	24.48	.30*
15.0	31.15	6.54	24.47	+
20.0	31.14	6.54	24.47	.60*
25.0	31.14	6.54	24.47	+
30.0	31.14	6.54	24.47	.90*
35.0	31.14	6.54	24.47	+
40.0	31.14	6.54	24.47	1.20*
45.0	31.14	6.54	24.47	+
50.0	31.14	6.54	24.47	1.50*
60.0	31.13	6.53	24.46	+
70.0	31.13	6.51	24.46	+
80.0	31.15	6.48	24.48	2.33*
90.0	31.14	6.48	24.48	+
100.0	31.14	6.48	24.48	+
110.0	31.14	6.48	24.48	+
120.0	31.14	6.48	24.48	+
130.0	31.17	6.49	24.50	1.52*
140.0	31.17	6.48	24.50	.77*
150.0	31.18	6.49	24.51	1.53*
160.0	31.18	6.49	24.51	+
170.0	31.18	6.49	24.51	+
180.0	31.18	6.50	24.50	+
190.0	31.18	6.50	24.50	+
200.0	31.18	6.51	24.50	+
210.0	31.19	6.51	24.51	+
220.0	31.19	6.53	24.51	+
230.0	31.18	6.53	24.50	+

MAX DEPTH 238.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 38.50

DATE 5/ 3/79

TIME (PST) 1914

TAPE: CZ0/79/ 2-026

LONG W126 17.30

PASS NO. 3

STN: 18 - KN2

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	31.05	6.76	24.37	4.66*
2.0	31.04	6.77	24.36	.39*
5.0	31.02	6.76	24.35	+
10.0	31.03	6.76	24.36	1.95*
15.0	31.04	6.75	24.36	2.92*
20.0	31.08	6.73	24.40	2.35*
25.0	31.07	6.72	24.39	1.77*
30.0	31.09	6.70	24.41	1.14*
35.0	31.09	6.70	24.41	.52*
40.0	31.09	6.70	24.41	1.50*
45.0	31.09	6.69	24.41	2.48*
50.0	31.10	6.65	24.42	2.97*
60.0	31.12	6.59	24.45	2.67*
70.0	31.13	6.56	24.46	1.99*
80.0	31.15	6.55	24.47	1.63*
90.0	31.15	6.54	24.48	1.33*
100.0	31.16	6.56	24.48	1.66*
110.0	31.18	6.56	24.50	1.68*
120.0	31.19	6.56	24.50	1.01*
130.0	31.19	6.55	24.51	1.11*
140.0	31.21	6.56	24.52	2.22*
150.0	31.22	6.54	24.53	2.55*
160.0	31.22	6.55	24.53	+
170.0	31.21	6.55	24.52	+
180.0	31.20	6.55	24.52	+
190.0	31.20	6.55	24.51	+
200.0	31.19	6.55	24.51	+
210.0	31.19	6.55	24.51	+
220.0	31.20	6.55	24.51	+
230.0	31.20	6.55	24.51	+

MAX DEPTH 239.0



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 39.20

DATE 5/ 3/79

TIME (PST) 1957

TAPE: CZ0/79/ 2-027

LONG W126 12.50

PASS NO. 5

STN: 17 - MONTAGU PT.

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	31.02	6.79	24.34	+
2.0	31.02	6.79	24.34	.01*
5.0	31.02	6.79	24.34	.04
10.0	31.02	6.79	24.34	1.58
15.0	31.00	6.79	24.33	+
20.0	31.01	6.79	24.33	4.67
25.0	31.05	6.78	24.37	4.43
30.0	31.06	6.76	24.38	2.01*
35.0	31.06	6.75	24.38	1.27*
40.0	31.07	6.74	24.39	.96*
45.0	31.07	6.74	24.39	1.09*
50.0	31.07	6.73	24.39	1.33*
60.0	31.08	6.73	24.40	.85*
70.0	31.09	6.72	24.41	3.91*
80.0	31.18	6.62	24.49	3.68*
90.0	31.18	6.59	24.50	1.89*
100.0	31.19	6.55	24.51	1.67*
110.0	31.20	6.55	24.51	1.43*
120.0	31.21	6.55	24.52	1.09*
130.0	31.21	6.56	24.52	.43*
140.0	31.21	6.57	24.52	.95*
150.0	31.22	6.57	24.53	.52*
160.0	31.22	6.57	24.53	.17*
170.0	31.22	6.57	24.53	.56*
180.0	31.22	6.56	24.53	.37*
190.0	31.22	6.56	24.53	.24*
200.0	31.22	6.56	24.53	.22*
210.0	31.22	6.56	24.53	.24*
220.0	31.22	6.55	24.53	+
230.0	31.21	6.55	24.52	+

MAX DEPTH 231.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 39.90

DATE 5/ 3/79

TIME (PST) 2056

TAPE: CZ0/79/ 2-028

LONG W126 04.20

PASS NO. 7

STN: 16 - KN3

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	30.57	6.74	24.00	14.98
2.0	30.76	6.74	24.14	15.64
5.0	30.70	6.74	24.10	13.78*
10.0	31.09	6.78	24.40	8.50
15.0	31.10	6.79	24.41	4.11*
20.0	31.13	6.79	24.43	3.20*
25.0	31.14	6.75	24.44	2.82*
30.0	31.15	6.70	24.46	2.57*
35.0	31.16	6.70	24.46	2.19*
40.0	31.16	6.67	24.47	1.79*
45.0	31.16	6.67	24.47	1.46*
50.0	31.17	6.66	24.48	1.16*
60.0	31.17	6.64	24.48	1.71*
70.0	31.18	6.63	24.49	.86*
80.0	31.18	6.61	24.49	.69*
90.0	31.18	6.60	24.50	1.36*
100.0	31.19	6.60	24.50	2.63*
110.0	31.21	6.58	24.52	.75*
120.0	31.21	6.58	24.52	+
130.0	31.21	6.58	24.52	+
140.0	31.21	6.58	24.52	+
150.0	31.21	6.58	24.52	+
160.0	31.21	6.58	24.52	+
170.0	31.21	6.58	24.52	+
180.0	31.20	6.58	24.51	+

MAX DEPTH 185.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 40.60

DATE 5/ 3/79

TIME (PST) 2138

TAPE: CZ0/79/ 2-029

LONG W125 59.50

PASS NO. 9

STN: 15 - HOEYA HEAD

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	28.81	6.30	22.67	30.65
2.0	29.55	6.38	23.24	31.30
5.0	30.48	6.71	23.93	6.09
10.0	30.29	6.69	23.78	13.07*
15.0	31.02	6.81	24.34	9.66*
20.0	31.06	6.81	24.37	3.66*
25.0	31.08	6.82	24.39	2.27*
30.0	31.10	6.84	24.40	2.03*
35.0	31.10	6.81	24.40	1.87*
40.0	31.12	6.83	24.42	1.73*
45.0	31.12	6.81	24.42	2.48
50.0	31.12	6.80	24.42	3.46
60.0	31.11	6.82	24.41	+
70.0	31.15	6.73	24.45	+
MAX DEPTH	75.0			

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 40.60

DATE 5/ 3/79

TIME (PST) 2210

TAPE: CZ0/79/ 2-030

LONG W125 57.20

PASS NO. 11

STN: 14 - CAMP PEAK

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	29.05	6.30	22.86	32.62*
2.0	29.99	6.37	23.59	26.84*
5.0	30.40	6.53	23.89	18.16*
10.0	30.58	6.71	24.01	12.41
15.0	30.83	6.77	24.20	10.35
20.0	30.95	6.77	24.29	7.93
25.0	31.00	6.78	24.33	4.16*
30.0	31.01	6.78	24.34	2.55*
35.0	31.03	6.78	24.35	2.70*
40.0	31.05	6.77	24.37	2.78*
45.0	31.06	6.77	24.38	2.59*
50.0	31.08	6.76	24.39	2.38*
60.0	31.06	6.76	24.38	+
70.0	31.07	6.76	24.38	1.20*
80.0	31.07	6.76	24.39	+
90.0	31.07	6.76	24.39	1.18*
100.0	31.08	6.76	24.39	1.12*
110.0	31.09	6.76	24.40	+
120.0	31.09	6.76	24.40	.51*
130.0	31.09	6.75	24.40	.52*
140.0	31.09	6.75	24.40	.69*
150.0	31.09	6.73	24.40	.22*
160.0	31.09	6.71	24.41	.83*
170.0	31.09	6.71	24.41	.20*
180.0	31.09	6.71	24.41	.16*
190.0	31.09	6.71	24.41	.25*
200.0	31.09	6.71	24.41	.27*
210.0	31.09	6.71	24.41	.41*
220.0	31.09	6.71	24.41	
230.0	31.09	6.70	24.41	+
240.0	31.08	6.70	24.40	+
250.0	31.08	6.71	24.40	+
260.0	31.07	6.71	24.40	+
270.0	31.07	6.71	24.39	+
280.0	31.07	6.71	24.39	+
290.0	31.06	6.71	24.39	+
300.0	31.06	6.70	24.39	+
310.0	31.05	6.70	24.38	+
320.0	31.05	6.70	24.38	+
330.0	31.05	6.70	24.38	+

MAX DEPTH 331.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 40.70

DATE 5/ 3/79

TIME (PST) 2307

TAPE: CZ0/79/ 2-031

LONG W125 54.40

PASS NO. 13

STN: 12 - ROUGH PT.

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	29.73	6.76	23.33	20.17
2.0	30.25	6.75	23.74	23.42
5.0	30.77	6.78	24.15	5.58
10.0	30.83	6.80	24.19	7.08
15.0	30.92	6.83	24.26	5.98*
20.0	30.96	6.85	24.29	3.90*
25.0	30.99	6.85	24.31	3.20*
30.0	31.01	6.86	24.33	2.34*
35.0	31.02	6.88	24.33	1.38*
40.0	31.02	6.88	24.33	1.93*
45.0	31.04	6.88	24.35	3.50*
50.0	31.09	6.83	24.39	5.10
60.0	31.10	6.91	24.39	+
70.0	31.09	6.82	24.39	1.74*
80.0	31.08	6.80	24.39	+
90.0	31.09	6.78	24.40	2.20*
100.0	31.09	6.77	24.40	+
110.0	31.09	6.77	24.40	.45*
120.0	31.09	6.77	24.40	.48*
130.0	31.09	6.76	24.40	.14*
140.0	31.09	6.76	24.40	+
150.0	31.09	6.76	24.40	.07*
160.0	31.09	6.76	24.40	.57*
170.0	31.09	6.75	24.40	.20*
180.0	31.09	6.75	24.40	.13*
190.0	31.09	6.75	24.40	.00*
200.0	31.09	6.75	24.40	.00*
210.0	31.09	6.75	24.40	.02*
220.0	31.09	6.75	24.40	+
230.0	31.08	6.75	24.40	+
240.0	31.07	6.75	24.39	+
250.0	31.07	6.74	24.39	+
260.0	31.07	6.74	24.39	.60*
270.0	31.07	6.74	24.39	+
280.0	31.07	6.74	24.39	.08*
290.0	31.07	6.73	24.39	.73*
300.0	31.07	6.72	24.39	.64*
310.0	31.07	6.71	24.39	+
320.0	31.06	6.71	24.39	+
330.0	31.06	6.71	24.38	+
340.0	31.06	6.72	24.38	
360.0	31.05	6.71	24.38	+
380.0	31.04	6.71	24.37	+

MAX DEPTH 387.0



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 41.60

DATE 6/ 3/79

TIME (PST) 0011

TAPE: CZ0/79/ 2-032

LONG W125 49.30

PASS NO. 15

STN: 10 - TOM. ISL.

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	29.16	6.43	22.93	23.10
2.0	29.40	6.53	23.10	33.64
5.0	30.63	6.71	24.05	8.55
10.0	30.96	6.95	24.28	11.80
15.0	31.09	7.15	24.35	4.41*
20.0	31.12	7.17	24.37	3.42
25.0	31.13	7.15	24.38	4.05*
30.0	31.14	7.21	24.38	3.62*
35.0	31.11	7.11	24.38	+
40.0	31.11	7.08	24.38	2.76*
45.0	31.11	7.05	24.38	1.95*
50.0	31.11	7.04	24.38	1.05*
60.0	31.09	6.92	24.38	.92*
70.0	31.09	6.88	24.39	+
80.0	31.10	6.88	24.39	1.31*
90.0	31.10	6.86	24.40	1.24*
100.0	31.10	6.86	24.39	+
110.0	31.09	6.86	24.39	+
120.0	31.09	6.84	24.39	+
130.0	31.09	6.83	24.39	.64*
140.0	31.09	6.82	24.39	.51*
150.0	31.09	6.82	24.39	.73*
160.0	31.07	6.79	24.38	+
170.0	31.07	6.76	24.39	.47*
180.0	31.07	6.76	24.39	.41*
190.0	31.07	6.75	24.39	.38*
200.0	31.06	6.75	24.38	+
210.0	31.06	6.75	24.38	+
220.0	31.06	6.74	24.38	+
230.0	31.06	6.74	24.38	+
240.0	31.06	6.74	24.38	+
250.0	31.06	6.74	24.38	.31*
260.0	31.06	6.74	24.38	.42*
270.0	31.06	6.74	24.38	.41*
280.0	31.06	6.73	24.38	.36*
290.0	31.06	6.73	24.38	.52*
300.0	31.06	6.72	24.38	.54*
310.0	31.06	6.72	24.38	+
320.0	31.05	6.71	24.38	+
330.0	31.04	6.71	24.37	+

MAX DEPTH 331.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 41.70

DATE 6/ 3/79

TIME (PST) 0056

TAPE: CZ0/79/ 2-033

LONG W125 46.60

PASS NO. 17

STN: 8 - SIWASH BAY

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	28.78	6.07	22.67	28.81
2.0	29.50	6.08	23.23	35.01
5.0	30.95	6.21	24.36	18.97
10.0	31.10	7.00	24.38	3.73*
15.0	31.10	7.10	24.37	+
20.0	31.11	7.09	24.37	1.91*
25.0	31.13	7.10	24.39	2.35
30.0	31.12	7.03	24.39	4.03*
35.0	31.12	6.98	24.40	2.64*
40.0	31.12	6.98	24.40	2.08*
45.0	31.12	6.99	24.39	1.53*
50.0	31.12	6.92	24.40	1.33*
60.0	31.11	6.90	24.40	+
70.0	31.11	6.90	24.40	+
80.0	31.11	6.89	24.40	.43*
90.0	31.11	6.89	24.40	.50*
100.0	31.11	6.88	24.40	.57*
110.0	31.10	6.88	24.40	+
120.0	31.10	6.86	24.40	.96*
130.0	31.10	6.83	24.40	.82*
140.0	31.10	6.83	24.40	.63*
150.0	31.10	6.81	24.40	.77*
160.0	31.10	6.81	24.40	+
170.0	31.09	6.79	24.40	+
180.0	31.09	6.76	24.40	.97*
190.0	31.08	6.76	24.40	+
200.0	31.08	6.75	24.39	+
210.0	31.08	6.75	24.40	.31*

MAX DEPTH 215.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 41.90

DATE 6/ 3/79

TIME (PST) 0137

TAPE: CZ0/79/ 2-034

LONG W125 43.50

PASS NO. 19

STN: 7 - SALLIE PT.

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	28.74	5.14	22.74	30.61
2.0	29.86	6.48	23.47	33.72
5.0	30.92	6.85	24.26	25.84*
10.0	31.10	7.02	24.38	6.74*
15.0	31.13	7.12	24.39	5.55*
20.0	31.12	7.11	24.38	+
25.0	31.13	7.12	24.39	3.16*
30.0	31.15	7.11	24.40	2.09*
35.0	31.13	7.00	24.40	1.50*
40.0	31.13	6.99	24.40	1.00*
45.0	31.13	6.98	24.40	.87*
50.0	31.13	6.98	24.41	.79*
60.0	31.13	6.96	24.41	+
70.0	31.12	6.92	24.40	1.34*
80.0	31.09	6.89	24.38	+
90.0	31.11	6.85	24.40	1.83*
100.0	31.11	6.85	24.41	+
110.0	31.10	6.83	24.40	+
120.0	31.10	6.83	24.40	+
130.0	31.10	6.84	24.40	+
140.0	31.10	6.84	24.40	1.15*
150.0	31.11	6.84	24.41	1.34*
160.0	31.11	6.83	24.41	+
170.0	31.10	6.83	24.40	+
180.0	31.10	6.80	24.40	.79*
190.0	31.09	6.77	24.40	+
200.0	31.09	6.75	24.41	1.03*
210.0	31.10	6.75	24.41	1.02*
220.0	31.10	6.75	24.41	+
230.0	31.09	6.75	24.40	+
240.0	31.08	6.75	24.40	+
250.0	31.08	6.74	24.40	+
260.0	31.07	6.74	24.39	+
270.0	31.07	6.74	24.39	+
280.0	31.07	6.73	24.39	+
290.0	31.07	6.73	24.39	+
300.0	31.06	6.73	24.39	+
310.0	31.06	6.72	24.38	+
320.0	31.06	6.72	24.38	.36*
330.0	31.06	6.72	24.38	.53*
340.0	31.06	6.71	24.38	+
360.0	31.05	6.71	24.38	+
380.0	31.04	6.71	24.37	+
400.0	31.03	6.71	24.36	+
420.0	31.03	6.71	24.36	+

MAX DEPTH 434.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 45.10

DATE 6/ 3/79

TIME (PST) 0231

TAPE: CZ0/79/ 2-035

LONG W125 41.00

PASS NO. 21

STN: 6 - KN6

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	28.74	5.03	22.75	68.52
2.0	30.51	6.59	23.97	33.24
5.0	30.70	6.68	24.11	13.91
10.0	31.05	6.95	24.35	6.97
15.0	31.14	7.18	24.39	4.00*
20.0	31.16	7.23	24.39	1.90*
25.0	31.18	7.30	24.40	1.45*
30.0	31.18	7.25	24.41	1.17*
35.0	31.16	7.19	24.40	1.01*
40.0	31.15	7.14	24.40	.83*
45.0	31.14	7.12	24.39	.65*
50.0	31.14	7.08	24.40	1.02*
60.0	31.12	6.95	24.40	1.83*
70.0	31.11	6.88	24.40	1.19*
80.0	31.11	6.84	24.41	.93*
90.0	31.11	6.81	24.41	1.15*
100.0	31.11	6.83	24.41	+
110.0	31.11	6.83	24.41	+
120.0	31.11	6.83	24.41	+
130.0	31.11	6.83	24.41	+
140.0	31.11	6.83	24.41	+
150.0	31.11	6.85	24.41	+
160.0	31.11	6.84	24.41	.66*
170.0	31.11	6.84	24.41	+
180.0	31.11	6.84	24.41	+
190.0	31.11	6.85	24.41	+
200.0	31.11	6.85	24.41	.30*
210.0	31.11	6.85	24.41	.61*
220.0	31.11	6.83	24.41	+
230.0	31.10	6.79	24.40	.47*
240.0	31.08	6.78	24.39	+
250.0	31.07	6.76	24.39	+
260.0	31.07	6.75	24.39	.62*
270.0	31.07	6.74	24.39	.24*
280.0	31.07	6.74	24.39	+
290.0	31.06	6.74	24.39	+
300.0	31.06	6.74	24.38	+
310.0	31.06	6.73	24.38	+
320.0	31.06	6.73	24.38	.66*
330.0	31.05	6.72	24.38	+
340.0	31.05	6.72	24.37	+
360.0	31.05	6.72	24.37	.15*
380.0	31.04	6.72	24.37	+
400.0	31.03	6.72	24.36	+
420.0	31.02	6.72	24.36	+
440.0	31.02	6.71	24.35	+
460.0	31.02	6.71	24.35	+

MAX DEPTH 464.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 47.90

DATE 6/ 3/79

TIME (PST) 0320

TAPE: CZ0/79/ 2-036

LONG W125 37.00

PASS NO. 23

STN: 5 - KN7

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	28.73	5.08	22.74	53.61
2.0	30.01	6.44	23.59	34.30
5.0	30.53	6.51	23.99	23.00
10.0	31.03	6.92	24.33	7.78*
15.0	31.09	7.09	24.36	3.67*
20.0	31.14	7.20	24.38	2.32*
25.0	31.14	7.23	24.38	2.06*
30.0	31.15	7.21	24.39	2.06*
35.0	31.14	7.17	24.39	+
40.0	31.13	7.02	24.40	2.05*
45.0	31.12	6.93	24.40	1.65*
50.0	31.11	6.90	24.40	1.14*
60.0	31.11	6.86	24.40	.95*
70.0	31.10	6.84	24.40	+
80.0	31.10	6.83	24.40	1.18*
90.0	31.11	6.83	24.41	1.32*
100.0	31.11	6.83	24.41	1.30*
110.0	31.11	6.83	24.41	+
120.0	31.11	6.83	24.41	+
130.0	31.11	6.83	24.41	+
140.0	31.11	6.85	24.41	+
150.0	31.11	6.86	24.40	+
160.0	31.11	6.87	24.40	+
170.0	31.11	6.88	24.40	+
180.0	31.11	6.88	24.40	+
190.0	31.11	6.87	24.40	+
200.0	31.10	6.87	24.40	+
210.0	31.10	6.85	24.40	+
220.0	31.10	6.84	24.40	.94*
230.0	31.09	6.82	24.40	.83*
240.0	31.08	6.82	24.39	+
250.0	31.08	6.80	24.39	+
260.0	31.08	6.80	24.39	.58*
270.0	31.07	6.78	24.39	.32*
280.0	31.07	6.77	24.38	+
290.0	31.07	6.76	24.39	1.10*
300.0	31.08	6.76	24.39	1.17*
310.0	31.08	6.74	24.40	+
320.0	31.07	6.74	24.39	+
330.0	31.06	6.74	24.39	+
340.0	31.06	6.73	24.38	+
360.0	31.05	6.73	24.37	+
380.0	31.04	6.72	24.37	+
400.0	31.03	6.72	24.36	+
420.0	31.02	6.72	24.35	+

MAX DEPTH 437.0



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 52.40

DATE 6/ 3/79

TIME (PST) 0418

TAPE: CZ0/79/ 2-037

LONG W125 38.50

PASS NO. 25

STN: 4 - KN8

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	28.74	5.04	22.75	49.15
2.0	29.89	6.44	23.50	37.30
5.0	30.88	6.68	24.25	14.99
10.0	31.03	6.96	24.33	5.44*
15.0	31.08	7.11	24.35	3.38*
20.0	31.11	7.23	24.36	2.93*
25.0	31.14	7.26	24.38	2.48
30.0	31.13	7.26	24.37	4.91
35.0	31.11	6.98	24.39	3.00*
40.0	31.11	6.90	24.40	1.55*
45.0	31.11	6.87	24.40	1.12*
50.0	31.11	6.86	24.40	.93*
60.0	31.11	6.85	24.41	+
70.0	31.11	6.83	24.41	.85*
80.0	31.10	6.83	24.40	+
90.0	31.10	6.82	24.40	+
100.0	31.10	6.82	24.40	+
110.0	31.09	6.82	24.40	+
120.0	31.09	6.82	24.39	+
130.0	31.09	6.83	24.39	+
140.0	31.09	6.84	24.39	+
150.0	31.09	6.84	24.39	+
160.0	31.09	6.85	24.39	+
170.0	31.09	6.87	24.39	+
180.0	31.10	6.88	24.39	.71*
190.0	31.10	6.89	24.39	.00*
200.0	31.10	6.89	24.39	+
210.0	31.10	6.90	24.39	+
220.0	31.10	6.90	24.39	.14*
230.0	31.09	6.88	24.39	+
240.0	31.09	6.85	24.39	.87*
250.0	31.08	6.84	24.38	+
260.0	31.07	6.84	24.38	+
270.0	31.06	6.84	24.37	+
280.0	31.06	6.83	24.37	+
290.0	31.06	6.82	24.37	.61*
300.0	31.06	6.81	24.37	+
310.0	31.05	6.80	24.37	+
320.0	31.05	6.79	24.36	+
330.0	31.04	6.79	24.36	+
340.0	31.04	6.78	24.36	.62*
360.0	31.04	6.75	24.36	+
380.0	31.03	6.75	24.35	+
400.0	31.02	6.75	24.35	+
420.0	31.01	6.74	24.35	+
440.0	31.01	6.74	24.34	+
460.0	30.99	6.74	24.33	+

MAX DEPTH 469.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 54.30

DATE 6/ 3/79

TIME (PST) 0502

TAPE: CZ0/79/ 2-038

LONG W125 32.80

PASS NO. 27

STN: 3 - KN9

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	28.72	4.36	22.80	55.53*
2.0	30.39	6.44	23.89	43.68*
5.0	30.40	6.54	23.89	25.92*
10.0	30.94	6.70	24.29	11.09*
15.0	31.03	6.95	24.33	6.10*
20.0	31.11	7.11	24.37	3.52*
25.0	31.13	7.27	24.37	2.54*
30.0	31.14	7.29	24.38	3.44
35.0	31.19	7.32	24.41	4.48*
40.0	31.18	7.33	24.40	+
45.0	31.16	7.24	24.40	3.22*
50.0	31.13	7.14	24.38	+
60.0	31.13	6.97	24.41	1.44*
70.0	31.12	6.91	24.40	+
80.0	31.10	6.87	24.40	+
90.0	31.09	6.81	24.39	1.16*
100.0	31.09	6.79	24.40	1.29*
110.0	31.10	6.80	24.40	.81*
120.0	31.10	6.80	24.40	+
130.0	31.10	6.81	24.40	+
140.0	31.10	6.82	24.40	+
150.0	31.10	6.82	24.40	+
160.0	31.10	6.83	24.40	+
170.0	31.10	6.83	24.40	+
180.0	31.10	6.83	24.40	+
190.0	31.10	6.84	24.40	+
200.0	31.10	6.86	24.40	+
210.0	31.10	6.88	24.39	+
220.0	31.10	6.89	24.39	+
230.0	31.10	6.89	24.39	+
240.0	31.10	6.89	24.40	1.16*
250.0	31.11	6.89	24.40	.55*
260.0	31.10	6.89	24.39	+
270.0	31.10	6.86	24.40	.80*
280.0	31.09	6.84	24.39	+
290.0	31.09	6.83	24.39	.52*
300.0	31.08	6.81	24.39	+
310.0	31.08	6.81	24.39	.91*
320.0	31.08	6.78	24.39	+
330.0	31.07	6.76	24.39	+
340.0	31.07	6.75	24.39	+
360.0	31.06	6.74	24.38	+
380.0	31.06	6.73	24.38	+
400.0	31.05	6.73	24.38	+

MAX DEPTH 417.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N50 58.90

DATE 6/ 3/79

TIME (PST) 0552

TAPE: CZ0/79/ 2-039

LONG W125 33.20

PASS NO. 29

STN: 2 - KN10

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	28.74	4.08	22.84	44.20
2.0	30.31	6.18	23.86	25.56
5.0	30.61	6.66	24.04	15.63
10.0	31.07	6.92	24.36	11.29
15.0	31.14	7.25	24.38	3.30*
20.0	31.15	7.27	24.38	1.39*
25.0	31.18	7.27	24.41	1.17*
30.0	31.18	7.34	24.40	1.13*
35.0	31.18	7.35	24.40	1.19*
40.0	31.18	7.36	24.39	+
45.0	31.18	7.36	24.39	1.32*
50.0	31.18	7.35	24.39	+
60.0	31.16	7.33	24.38	+
70.0	31.11	7.17	24.36	+
80.0	31.09	6.90	24.38	+
90.0	31.09	6.81	24.39	1.55*
100.0	31.09	6.80	24.40	.79*
110.0	31.09	6.80	24.40	+
120.0	31.09	6.80	24.40	+
130.0	31.09	6.81	24.40	+
140.0	31.09	6.81	24.39	+
150.0	31.09	6.82	24.39	+
160.0	31.09	6.82	24.39	+
170.0	31.09	6.83	24.39	+
180.0	31.09	6.86	24.39	+
190.0	31.10	6.87	24.39	.78*
200.0	31.10	6.91	24.39	+
210.0	31.10	6.91	24.39	+
220.0	31.10	6.92	24.39	+
230.0	31.10	6.92	24.39	+
240.0	31.09	6.92	24.38	+
250.0	31.09	6.92	24.38	+
260.0	31.08	6.92	24.38	+
270.0	31.08	6.92	24.37	+
280.0	31.08	6.91	24.37	+
290.0	31.07	6.91	24.37	+

MAX DEPTH 298.0

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT INLET

LAT N51 02.30

DATE 6/ 3/79

TIME (PST) 0630

TAPE: CZ0/79/ 2-040

LONG W125 33.80

PASS NO. 31

STN: 1 - KN11

DEPTH	SAL	TEMP	SIGMA-T	B-V
.0	29.53	4.65	23.41	32.68
2.0	30.20	6.43	23.74	23.93
5.0	30.61	6.60	24.04	13.39
10.0	30.93	6.85	24.26	10.85
15.0	31.11	7.20	24.36	6.41
20.0	31.17	7.29	24.40	4.60*
25.0	31.17	7.34	24.39	+
30.0	31.17	7.35	24.39	2.09*
35.0	31.18	7.35	24.39	1.23*
40.0	31.18	7.35	24.39	.94*
45.0	31.17	7.29	24.39	.88*
50.0	31.16	7.25	24.40	1.15*
60.0	31.13	7.09	24.39	+
70.0	31.11	6.97	24.39	1.26*
80.0	31.10	6.81	24.40	1.02*
90.0	31.10	6.80	24.40	.71*
100.0	31.10	6.79	24.41	+
110.0	31.10	6.79	24.41	+
120.0	31.10	6.79	24.41	+
130.0	31.10	6.80	24.40	+
140.0	31.10	6.82	24.40	+
150.0	31.10	6.83	24.40	+
160.0	31.10	6.83	24.40	+
170.0	31.10	6.85	24.40	+
180.0	31.10	6.86	24.40	+
190.0	31.10	6.87	24.40	+
200.0	31.10	6.90	24.39	+
210.0	31.10	6.91	24.39	+
220.0	31.10	6.92	24.39	+

MAX DEPTH 223.0

CRUISE NO. 79-05 (NO. 23)





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 05 KNIGHT  
 LAT N50 38.10  
 DATE 18/ 6/79  
 TIME (PST) 1859

TAPE: CZ0/79/ 3-102  
 LONG W126 25.20  
 PASS NO. 1  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.28	10.05	21.74	+
2.0	2.0	28.28	10.10	21.73	2.20*
5.0	5.0	28.32	10.06	21.77	5.37
10.1	10.1	28.46	9.94	21.90	22.70
15.1	15.2	29.82	8.71	23.15	24.45
20.0	20.1	30.43	8.35	23.67	24.31
25.0	25.1	30.68	8.15	23.89	6.08
30.2	30.3	30.84	8.05	24.03	10.46
35.2	35.3	30.91	8.00	24.10	6.67
40.0	40.2	30.97	7.97	24.15	5.52*
45.2	45.4	31.00	7.94	24.18	5.32
50.1	50.3	31.05	7.90	24.22	4.06
60.2	60.5	31.16	7.74	24.32	4.99
70.1	70.4	31.24	7.64	24.40	4.19*
80.1	80.5	31.27	7.63	24.43	3.42*
90.2	90.6	31.34	7.59	24.49	4.87*
100.0	100.6	31.40	7.56	24.54	5.07
110.1	110.7	31.47	7.54	24.60	4.57*
120.2	120.8	31.53	7.54	24.64	1.65*
130.1	130.8	31.53	7.55	24.64	2.97*
140.2	140.9	31.59	7.55	24.69	3.82*
150.1	150.9	31.61	7.54	24.71	2.77*
160.1	160.9	31.61	7.55	24.71	+
170.1	171.0	31.63	7.55	24.72	1.09*
180.2	181.2	31.63	7.55	24.72	.78*
190.1	191.1	31.64	7.55	24.73	1.53*
200.1	201.1	31.64	7.56	24.73	1.68*
210.2	211.3	31.66	7.56	24.74	1.80*
220.0	221.2	31.67	7.56	24.75	1.46*
230.2	231.4	31.68	7.56	24.76	1.20*
240.3	241.5	31.68	7.56	24.76	+
250.0	251.4	31.69	7.56	24.77	1.57*

MAX DEPTH 259.5

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 05 KNIGHT  
 LAT N50 38.50  
 DATE 18/ 6/79  
 TIME (PST) 1944

TAPE: CZ0/79/ 3-103  
 LONG W126 17.30  
 PASS NO. 3  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	26.32	10.63	20.13	5.10
2.1	2.1	26.64	10.41	20.41	17.16
5.1	5.2	26.81	10.28	20.57	26.36*
10.0	10.1	29.36	8.64	22.79	31.35
15.2	15.2	30.02	8.38	23.34	26.54
20.1	20.2	30.65	8.10	23.88	11.04
25.0	25.2	30.77	8.02	23.98	11.85*
30.2	30.3	30.82	7.79	24.06	6.71
35.2	35.4	30.91	7.87	24.12	5.30
40.1	40.3	30.97	7.82	24.17	4.85*
45.2	45.4	31.00	7.80	24.19	6.08*
50.0	50.3	31.08	7.69	24.27	4.45*
60.2	60.5	31.10	7.65	24.29	3.23*
70.2	70.6	31.15	7.58	24.34	4.53*
80.2	80.6	31.25	7.55	24.42	5.23
90.2	90.6	31.41	7.55	24.55	4.60
100.2	100.7	31.45	7.55	24.58	3.07*
110.0	110.6	31.50	7.55	24.62	3.28*
120.1	120.7	31.54	7.55	24.65	2.35*
130.1	130.8	31.57	7.55	24.67	5.36*
140.1	140.8	31.60	7.55	24.69	2.42*
150.1	150.8	31.62	7.55	24.72	2.86*
160.2	161.0	31.65	7.56	24.74	1.96*
170.0	170.9	31.66	7.56	24.74	1.72*
180.1	181.0	31.69	7.56	24.77	3.31*
190.1	191.2	31.74	7.57	24.80	2.53*
200.2	201.3	31.74	7.57	24.80	1.16*
210.0	211.1	31.75	7.57	24.81	1.63*
220.1	221.3	31.75	7.57	24.82	1.96*
230.2	231.5	31.75	7.57	24.81	+
240.1	241.4	31.76	7.57	24.82	+

MAX DEPTH 248.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 05 KNIGHT  
 LAT N50 39.20  
 DATE 18/ 6/79  
 TIME (PST) 2016

TAPE: CZ0/79/ 3-104  
 LONG W126 12.50  
 PASS NO. 5  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	26.93	9.73	20.74	12.32
2.1	2.1	26.74	9.93	20.57	8.73*
5.2	5.2	27.38	9.53	21.12	21.95
10.1	10.1	28.87	8.61	22.42	31.58
15.0	15.1	30.43	7.92	23.73	16.13
20.3	20.3	30.50	7.92	23.78	11.64*
25.2	25.3	30.81	7.64	24.07	8.53*
30.1	30.2	30.85	7.65	24.09	5.56*
35.2	35.4	30.89	7.61	24.13	5.90
40.1	40.3	30.90	7.58	24.14	5.43*
45.1	45.3	30.91	7.44	24.17	6.17
50.1	50.3	31.05	7.52	24.27	9.39*
60.1	60.4	31.16	7.43	24.37	4.20*
70.1	70.4	31.19	7.40	24.39	3.72
80.1	80.5	31.29	7.51	24.46	4.77*
90.3	90.7	31.33	7.53	24.49	4.02*
100.2	100.7	31.40	7.54	24.54	4.23*
110.2	110.8	31.45	7.54	24.58	7.28
120.1	120.7	31.56	7.54	24.66	4.09*
130.2	130.9	31.61	7.55	24.71	3.44*
140.1	140.8	31.64	7.55	24.73	2.40*
150.1	150.9	31.66	7.55	24.75	1.60*
160.2	161.0	31.68	7.55	24.76	1.59*
170.0	170.9	31.68	7.55	24.76	1.11*
180.1	181.0	31.69	7.55	24.77	.46*
190.1	191.1	31.68	7.56	24.76	1.41*

MAX DEPTH 196.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 05 KNIGHT  
 LAT N50 39.90  
 DATE 18/ 6/79  
 TIME (PST) 2106

TAPE: CZC/79/ 3-105  
 LONG W126 04.20  
 PASS NO. 7  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.86	10.97	18.18	25.08*
2.0	2.0	25.29	10.30	19.39	29.45*
5.1	5.1	26.73	9.56	20.61	36.01*
10.0	10.1	29.68	7.90	23.15	26.21
15.3	15.3	30.34	7.60	23.71	11.86
20.2	20.3	30.61	7.50	23.93	9.05
25.0	25.2	30.73	7.42	24.04	9.51
30.0	30.2	30.84	7.34	24.13	6.85
35.0	35.2	30.92	7.29	24.20	5.69*
40.1	40.3	30.97	7.27	24.25	5.20*
45.3	45.5	31.04	7.26	24.30	3.59*
50.1	50.3	31.05	7.25	24.31	3.28*
60.3	60.6	31.15	7.26	24.39	4.87*
70.0	70.4	31.32	7.39	24.50	5.69*
80.1	80.5	31.40	7.45	24.55	4.13*
90.1	90.6	31.45	7.46	24.59	2.56*
100.3	100.8	31.50	7.47	24.63	3.66*
110.2	110.7	31.55	7.48	24.67	4.34
120.2	120.8	31.56	7.49	24.67	2.27*
130.3	130.9	31.59	7.50	24.69	1.69*
140.0	140.8	31.59	7.51	24.69	1.04*
150.2	151.0	31.59	7.52	24.70	1.52*
160.0	160.8	31.61	7.52	24.71	1.71*
170.2	171.0	31.62	7.52	24.72	1.74*
180.1	181.0	31.65	7.54	24.74	1.33*

MAX DEPTH 187.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 05 KNIGHT  
 LAT N50 40.60  
 DATE 18/ 6/79  
 TIME (PST) 2131

TAPE: CZC/79/ 3-106  
 LONG W125 59.50  
 PASS NO. 9  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	23.38	11.05	17.79	5.27
2.0	2.0	23.42	11.03	17.83	10.71
5.0	5.0	23.48	10.99	17.88	22.62*
10.1	10.1	24.83	10.08	19.06	38.70
15.1	15.2	29.84	7.81	23.28	16.47
20.1	20.2	30.18	7.64	23.57	5.05
25.3	25.4	30.38	7.57	23.74	9.91*
30.0	30.2	30.63	7.45	23.95	9.96*
35.1	35.3	30.71	7.41	24.02	5.93*
40.2	40.4	30.74	7.40	24.04	6.22
45.2	45.4	30.84	7.35	24.13	5.33
50.0	50.3	30.89	7.33	24.17	5.88*
60.1	60.4	31.00	7.29	24.27	7.50
70.2	70.5	31.21	7.30	24.43	6.13*
MAX DEPTH	73.6				

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 05 KNIGHT  
 LAT N50 40.60  
 DATE 18/ 6/79  
 TIME (PST) 2148

TAPL: CZO/79/ 3-107  
 LONG W125 57.20  
 PASS NO. 11  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	22.54	10.81	17.18	8.52
2.1	2.1	22.61	10.80	17.24	7.00
5.1	5.1	23.10	10.73	17.63	47.73
10.2	10.2	29.17	8.04	22.73	21.30
15.2	15.3	29.59	7.87	23.08	12.94
20.1	20.2	30.17	7.66	23.56	12.80
25.0	25.2	30.29	7.60	23.66	8.64*
30.1	30.2	30.38	7.56	23.74	7.34*
35.2	35.3	30.40	7.55	23.76	8.60*
40.1	40.3	30.60	7.47	23.92	8.85
45.2	45.4	30.72	7.41	24.03	5.82
50.1	50.3	30.76	7.39	24.06	5.10*
60.1	60.3	30.87	7.30	24.16	5.75*
70.2	70.5	30.94	7.24	24.22	3.17*
80.1	80.5	31.00	7.26	24.27	4.48
90.1	90.5	31.06	7.25	24.31	2.61*
100.3	100.8	31.08	7.24	24.33	1.22*
110.1	110.6	31.11	7.22	24.35	3.87
120.2	120.8	31.13	7.21	24.38	2.71*
130.2	130.9	31.14	7.20	24.38	1.22*
140.1	140.8	31.15	7.19	24.39	3.44*
150.1	150.8	31.16	7.17	24.41	1.52*
160.3	161.1	31.17	7.16	24.42	1.16*
170.2	171.0	31.17	7.15	24.42	+
180.2	181.1	31.17	7.14	24.42	1.05*
190.2	191.1	31.17	7.13	24.42	1.27*
200.0	201.0	31.18	7.10	24.43	1.21*
210.2	211.3	31.18	7.10	24.43	1.15*
220.1	221.2	31.18	7.09	24.43	1.05*
230.1	231.3	31.18	7.05	24.44	1.26*
240.2	241.4	31.18	7.04	24.43	.83*
250.1	251.4	31.18	7.04	24.44	.61*
260.1	261.4	31.18	7.04	24.43	+
270.2	271.5	31.18	7.03	24.44	.44*
280.1	281.5	31.18	7.03	24.44	.93*

MAX DEPTH 289.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 05 KNIGHT  
 LAT N50 40.70  
 DATE 18/ 6/79  
 TIME (PST) 2218

TAPE: CZO/79/ 3-108  
 LONG W125 54.40  
 PASS NO. 13  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	22.14	10.97	16.84	17.26
2.0	2.0	22.44	10.84	17.10	19.48
5.0	5.0	22.42	10.90	17.08	33.50
10.0	10.1	27.82	8.57	21.60	66.62
15.1	15.1	29.54	7.88	23.04	15.99
20.2	20.3	29.99	7.72	23.42	8.24
25.2	25.3	30.08	7.69	23.49	9.94*
30.3	30.4	30.39	7.56	23.75	9.03
35.2	35.3	30.54	7.49	23.88	10.61
40.1	40.3	30.73	7.39	24.04	8.87*
45.1	45.3	30.74	7.39	24.05	4.15*
50.1	50.4	30.79	7.35	24.09	6.59
60.4	60.7	30.92	7.28	24.20	4.74*
70.1	70.5	30.93	7.27	24.21	3.99
80.2	80.6	30.99	7.22	24.26	3.77*
90.1	90.6	31.01	7.18	24.29	2.58*
100.3	100.8	31.02	7.17	24.29	1.39*
110.1	110.7	31.03	7.18	24.30	2.24*
120.1	120.7	31.05	7.20	24.32	1.18*
130.0	130.6	31.06	7.23	24.32	1.81*
140.2	140.9	31.08	7.23	24.33	2.71*
150.1	150.9	31.10	7.14	24.36	2.42*
160.2	161.0	31.09	7.09	24.36	2.00*
170.1	171.0	31.10	7.04	24.37	1.22*
180.1	180.9	31.11	7.06	24.38	.90*
190.2	191.1	31.13	7.12	24.39	.88*
200.1	201.1	31.11	7.11	24.38	.99*
210.1	211.1	31.12	7.13	24.38	1.41*
220.1	221.2	31.13	7.10	24.39	1.67*
230.2	231.4	31.13	7.11	24.39	.68*
240.2	241.3	31.14	7.14	24.39	.58*
250.2	251.5	31.15	7.15	24.40	+
260.0	261.3	31.16	7.17	24.41	1.09*
270.2	271.5	31.16	7.16	24.41	.63*
280.2	281.6	31.17	7.16	24.41	1.14*
290.1	291.6	31.17	7.14	24.42	1.21*
300.1	301.6	31.17	7.13	24.42	1.35*
310.2	311.7	31.17	7.11	24.42	1.10*
320.1	321.7	31.17	7.11	24.42	1.10*
330.2	331.8	31.17	7.09	24.43	1.11*
340.3	341.9	31.18	7.06	24.43	1.06*
360.1	361.9	31.18	7.03	24.44	.84*
380.1	382.0	31.18	7.01	24.44	+
400.2	402.2	31.17	6.98	24.44	.54*

MAX DEPTH 416.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 05 KNIGHT  
 LAT N50 41.10  
 DATE 18/ 6/79  
 TIME (PST) 2250

TAPE: CZ/79/ 3-109  
 LONG W125 51.90  
 PASS NO. 15  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	21.35	11.26	16.19	56.13
2.0	2.0	21.09	11.30	15.98	16.28*
5.1	5.1	21.38	11.26	16.21	42.50
10.2	10.2	29.19	8.03	22.75	28.87
15.1	15.1	29.90	7.74	23.34	9.30
20.1	20.2	30.11	7.65	23.52	9.65
25.2	25.3	30.44	7.52	23.79	11.66*
30.0	30.1	30.61	7.45	23.94	7.54
35.0	35.2	30.67	7.42	23.99	5.61
40.3	40.5	30.69	7.41	24.01	4.02*
45.1	45.3	30.72	7.40	24.03	3.25*
50.2	50.4	30.74	7.39	24.05	2.80*
60.1	60.3	30.80	7.36	24.10	4.73*
70.0	70.3	30.82	7.35	24.11	3.01*
80.2	80.6	30.87	7.32	24.16	2.29*
90.2	90.7	30.89	7.31	24.17	3.06*
100.3	100.8	30.96	7.26	24.23	3.59*
110.2	110.7	30.98	7.24	24.25	3.84
120.3	120.8	31.02	7.17	24.29	4.49
130.1	130.7	31.08	7.12	24.34	2.28*
140.2	140.9	31.07	7.11	24.34	1.89*
150.1	150.9	31.09	7.07	24.36	1.71*
160.3	161.1	31.08	6.95	24.37	1.64*
170.3	171.1	31.08	6.96	24.37	2.46
180.2	181.1	31.12	7.01	24.39	2.42*
190.1	191.0	31.12	6.99	24.40	1.75*
200.2	201.2	31.14	7.03	24.41	1.84*
210.2	211.2	31.15	7.07	24.41	1.30*
220.0	221.1	31.16	7.06	24.41	1.34*
230.2	231.3	31.16	7.10	24.41	+
240.1	241.3	31.17	7.13	24.41	1.21*
250.2	251.4	31.18	7.12	24.43	1.10*
260.2	261.5	31.18	7.11	24.43	1.44*
270.2	271.5	31.18	7.07	24.43	+
280.0	281.4	31.19	7.05	24.44	.53*
290.2	291.6	31.18	7.05	24.43	.22*
300.1	301.6	31.18	7.06	24.44	.69*
310.3	311.8	31.18	7.05	24.43	1.02*
320.2	321.8	31.17	7.04	24.43	.97*
330.2	331.8	31.18	7.03	24.44	+

MAX DEPTH 332.6

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 05 KNIGHT  
 LAT N50 41.60  
 DATE 18/ 6/79  
 TIME (PST) 2325

TAPE: CZ0/79/ 3-110  
 LONG W125 49.30  
 PASS NO. 17  
 STN: 10 - TOM. ISL.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	20.03	11.35	15.16	25.58
2.1	2.1	20.56	11.26	15.59	25.51
5.1	5.1	20.93	11.19	15.88	44.72
10.1	10.2	20.15	8.41	21.89	45.10
15.1	15.1	29.19	8.02	22.75	32.62
20.1	20.2	29.83	7.76	23.28	11.26
25.1	25.2	29.96	7.71	23.39	7.76*
30.1	30.2	30.05	7.68	23.46	8.26
35.0	35.2	30.24	7.60	23.62	4.16
40.0	40.2	30.38	7.54	23.74	6.30
45.2	45.4	30.45	7.52	23.80	9.55
50.1	50.3	30.68	7.42	24.00	6.80
60.2	60.4	30.77	7.37	24.07	6.05*
70.2	70.5	30.93	7.25	24.21	5.29
80.1	80.4	30.95	7.15	24.24	3.41*
90.1	90.6	30.98	6.97	24.29	3.92
100.2	100.7	31.01	6.97	24.31	2.01*
110.1	110.7	31.04	7.01	24.33	1.33*
120.3	120.9	31.06	7.05	24.34	.78*
130.1	130.7	31.06	6.98	24.35	1.42*
140.0	140.7	31.08	7.02	24.36	1.37*
150.1	150.8	31.10	7.06	24.37	1.51*
160.1	160.9	31.10	7.04	24.38	1.43*
170.2	171.0	31.11	7.03	24.39	1.77*
180.3	181.2	31.12	7.03	24.39	1.71*
190.0	191.0	31.13	7.04	24.40	1.64*
200.1	201.1	31.14	7.01	24.41	1.59*
210.2	211.2	31.15	7.02	24.41	1.82
220.1	221.2	31.15	7.04	24.42	1.75*
230.1	231.3	31.16	7.06	24.42	.87*
240.2	241.4	31.17	7.03	24.43	1.11*
250.1	251.3	31.16	7.00	24.43	1.17*
260.2	261.5	31.16	6.96	24.43	1.62*
270.2	271.5	31.17	7.04	24.43	1.49*
280.0	281.4	31.18	7.03	24.44	.93*
290.1	291.6	31.17	6.98	24.44	.91*
300.2	301.7	31.15	6.87	24.44	1.60*
310.1	311.6	31.16	6.85	24.45	1.38*
320.2	321.8	31.17	6.85	24.45	+

MAX DEPTH 324.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 05 KNIGHT  
 LAT N50 41.70  
 DATE 18/ 6/79  
 TIME (PST) 2400

TAPE: CZC/79/ 3-111  
 LONG W125 46.60  
 PASS NO. 19  
 ST 1: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	18.56	11.85	13.95	7.63
2.1	2.1	18.80	11.83	14.14	12.50*
5.1	5.1	20.45	11.25	15.50	31.44
10.1	10.1	22.43	10.62	17.12	55.25
15.2	15.2	27.92	8.50	21.68	48.13
20.2	20.3	30.03	7.71	23.45	15.07
25.1	25.2	30.27	7.50	23.65	16.05
30.0	30.1	30.57	7.46	23.91	9.11
35.0	35.2	30.72	7.40	24.03	10.76
40.0	40.2	30.82	7.34	24.11	4.95*
45.2	45.4	30.83	7.33	24.12	3.76*
50.3	50.5	30.86	7.31	24.15	4.32*
60.1	60.3	30.95	7.23	24.23	4.27
70.1	70.4	30.97	7.21	24.25	3.04
80.3	80.7	31.00	7.15	24.28	2.06*
90.3	90.7	31.01	7.14	24.29	1.76*
100.2	100.7	31.04	7.09	24.32	3.30*
110.2	110.7	31.05	7.02	24.34	2.17*
120.1	120.7	31.06	6.99	24.35	1.67*
130.1	130.7	31.07	6.94	24.36	1.93*
140.2	140.9	31.07	6.93	24.36	2.02*
150.1	150.8	31.09	6.94	24.38	3.65*
160.0	160.8	31.10	6.96	24.39	1.36*
170.1	171.0	31.10	6.91	24.39	1.39*
180.2	181.1	31.11	6.91	24.40	1.02*
190.1	191.0	31.11	6.91	24.40	.74*
200.2	201.2	31.11	6.92	24.40	1.05*
210.1	211.1	31.13	6.93	24.41	1.54*
220.2	221.2	31.14	6.96	24.41	1.47*
230.2	231.3	31.17	7.04	24.43	1.19*
240.1	241.3	31.17	7.08	24.42	4.95
250.0	251.3	31.15	6.99	24.42	1.13*
260.1	261.4	31.17	6.92	24.44	1.05*
270.2	271.5	31.15	6.90	24.43	2.00*
280.1	281.4	31.16	6.89	24.44	1.34*
290.0	291.5	31.16	6.88	24.44	+
300.2	301.7	31.16	6.88	24.44	.45*
310.1	311.7	31.16	6.85	24.44	+
320.2	321.8	31.15	6.85	24.44	1.31*
330.0	331.7	31.15	6.86	24.44	1.26*
340.0	341.7	31.16	6.85	24.45	

MAX DEPTH 349.1

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 05 KNIGHT

LAT N50 41.90

DATE 19/ 6/79

TIME (PST) 0033

TAPE: CZO/79/ 3-112

LONG W125 43.50

PASS NO. 21

STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	15.99	12.16	11.92	21.86
2.2	2.2	16.49	12.08	12.32	29.97
5.0	5.0	16.81	12.03	12.57	43.56*
10.2	10.2	21.99	11.17	16.70	58.90
15.2	15.3	29.34	8.03	22.86	32.85
20.1	20.2	29.98	7.69	23.41	15.87
25.1	25.2	30.35	7.54	23.72	11.20
30.2	30.4	30.60	7.43	23.93	8.43
35.2	35.3	30.68	7.36	24.01	6.55
40.2	40.4	30.76	7.34	24.07	5.26
45.1	45.3	30.79	7.28	24.10	5.27
50.2	50.4	30.81	7.28	24.12	5.58*
60.1	60.4	30.91	7.17	24.21	4.25*
70.1	70.5	30.94	7.08	24.25	3.20*
80.1	80.5	30.96	7.00	24.27	1.67*
90.0	90.5	30.97	6.96	24.28	1.87*
100.1	100.5	30.99	6.92	24.30	1.84*
110.2	110.8	30.99	6.89	24.31	2.80*
120.2	120.8	31.02	6.84	24.34	2.21*
130.2	130.8	31.03	6.85	24.35	2.33*
140.2	140.9	31.06	6.86	24.37	2.43*
150.2	150.9	31.07	6.87	24.37	1.52*
160.2	161.0	31.09	6.87	24.38	1.29*
170.2	171.0	31.09	6.87	24.39	1.34*
180.0	180.9	31.10	6.89	24.40	2.95*
190.0	191.0	31.12	6.94	24.40	1.84*
200.2	201.2	31.14	6.99	24.41	1.61*
210.0	211.1	31.15	6.99	24.42	+
220.2	221.3	31.16	7.04	24.42	1.18*
230.0	231.1	31.17	7.04	24.43	+
240.1	241.3	31.17	6.97	24.43	+
250.2	251.5	31.16	7.01	24.43	1.47*
260.2	261.5	31.16	6.94	24.43	1.10*
270.1	271.4	31.16	6.91	24.44	.87*
280.3	281.7	31.16	6.90	24.44	.75*
290.1	291.5	31.16	6.88	24.44	.80*
300.0	301.5	31.16	6.87	24.44	1.01*
310.2	311.7	31.17	6.87	24.45	.76*
320.2	321.8	31.17	6.86	24.45	.69*
330.0	331.7	31.17	6.85	24.45	.88*

MAX DEPTH 339.6

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT

LAT N50 45.10

DATE 19/ 6/79

TIME (PST) 0118

TAPE: CZ0/79/ 3-131

LONG W125 41.00

PASS NO. 23

STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	11.94	12.70	8.72	+
2.0	2.0	11.96	12.71	8.74	25.10
5.1	5.0	14.56	12.24	10.81	37.61
10.0	10.0	26.53	9.17	20.52	64.38
15.0	15.1	29.26	8.05	22.80	23.83
20.2	20.3	30.05	7.60	23.48	15.37
25.0	25.2	30.32	7.43	23.72	8.47
30.0	30.1	30.48	7.34	23.85	13.00*
35.1	35.3	30.64	7.24	23.99	9.47*
40.2	40.3	30.74	7.24	24.07	5.64
45.1	45.3	30.79	7.11	24.12	7.88
50.3	50.5	30.85	7.17	24.16	5.13*
60.3	60.6	30.89	7.12	24.20	4.21*
70.0	70.4	30.96	7.02	24.27	4.64*
80.1	80.5	31.00	6.95	24.31	2.93*
90.0	90.5	31.02	6.92	24.33	2.81*
100.1	100.6	31.04	6.82	24.35	2.96*
110.1	110.7	31.37	6.76	24.38	2.47*
120.2	120.8	31.68	6.75	24.40	2.13*
130.0	130.7	31.69	6.76	24.40	2.39*
140.2	140.9	31.12	6.77	24.42	2.20*
150.1	150.8	31.13	6.78	24.43	2.15*
160.0	160.8	31.16	6.81	24.45	1.74*
170.1	170.9	31.16	6.83	24.45	1.66*
180.1	181.0	31.17	6.81	24.46	1.45*
190.1	191.1	31.18	6.80	24.47	1.29*
200.0	201.0	31.18	6.80	24.47	1.44*
210.3	211.3	31.19	6.81	24.48	1.51*
220.1	221.3	31.21	6.79	24.49	.81*
230.1	231.2	31.20	6.80	24.48	.88*
240.2	241.4	31.19	6.80	24.48	1.15*
250.2	251.5	31.21	6.79	24.49	1.12*
260.0	261.4	31.22	6.79	24.50	1.61*
270.1	271.4	31.23	6.79	24.51	1.36*
280.1	281.5	31.23	6.80	24.51	1.15*
290.1	291.6	31.24	6.80	24.51	.91*
300.2	301.8	31.24	6.79	24.51	1.15*
310.1	311.6	31.24	6.80	24.51	.78*
320.1	321.7	31.24	6.79	24.52	.98*
330.2	331.9	31.25	6.79	24.52	1.24*
340.0	341.7	31.24	6.77	24.52	.98*
360.1	361.9	31.24	6.77	24.52	.51*
380.1	382.0	31.24	6.76	24.52	.79*
400.1	402.1	31.25	6.75	24.53	.76*
420.1	422.3	31.24	6.75	24.52	.41*
440.1	442.3	31.25	6.75	24.53	.54*
460.2	462.5	31.25	6.74	24.53	.80*
480.1	482.5	31.25	6.74	24.53	.94*
500.1	502.6	31.25	6.75	24.53	

MAX DEPTH 503.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 02 KNIGHT  
 LAT 1150 47.90  
 DATE 19/ 6/79  
 TIME (PST) 0216

TAPE: CZ0/79/ 3-132  
 LONG W125 37.00  
 PASS NO. 25  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	10.10	13.16	7.24	+
2.1	2.1	10.45	12.95	7.54	42.61
5.1	5.1	13.68	12.41	10.11	67.16
10.2	10.2	25.70	9.39	19.84	82.37
15.3	15.3	29.16	8.19	22.70	29.56
20.0	20.1	30.02	7.57	23.46	11.36
25.2	25.3	30.23	7.43	23.64	16.61
30.0	30.1	30.48	7.19	23.87	9.95
35.1	35.3	30.66	7.14	24.02	9.08
40.2	40.4	30.79	7.09	24.12	5.92
45.2	45.4	30.83	7.00	24.17	5.54
50.2	50.5	30.88	6.98	24.21	4.49*
60.3	60.6	30.97	6.96	24.28	3.54*
70.1	70.4	30.99	6.88	24.31	3.68*
80.0	80.4	31.02	6.78	24.34	2.89*
90.0	90.5	31.04	6.76	24.36	2.71*
100.1	100.6	31.07	6.77	24.38	2.36*
110.2	110.7	31.09	6.77	24.40	2.05*
120.2	120.7	31.10	6.79	24.41	1.67*
130.1	130.7	31.12	6.80	24.42	3.85*
140.2	140.9	31.13	6.82	24.43	1.99*
150.1	150.8	31.16	6.85	24.45	1.65*
160.1	160.9	31.18	6.87	24.46	1.21*
170.2	171.0	31.18	6.87	24.46	1.75*
180.0	180.9	31.20	6.88	24.47	1.84*
190.0	191.0	31.20	6.86	24.47	1.37*
200.1	201.1	31.20	6.82	24.48	1.00*
210.2	211.2	31.21	6.82	24.49	1.34*
220.3	221.4	31.21	6.82	24.49	1.76*
230.1	231.2	31.22	6.81	24.50	1.04*
240.1	241.3	31.22	6.81	24.50	3.61
250.1	251.3	31.23	6.81	24.51	1.43*
260.1	261.4	31.24	6.81	24.51	1.39*
270.0	271.4	31.24	6.82	24.51	1.43*
280.1	281.5	31.24	6.83	24.51	1.33*
290.2	291.6	31.25	6.83	24.52	.94*
300.2	301.8	31.25	6.83	24.52	.74*
310.1	311.7	31.25	6.82	24.52	1.08*
320.2	321.8	31.25	6.83	24.52	1.00*
330.1	331.7	31.25	6.82	24.52	.97*
340.2	341.9	31.26	6.81	24.53	.91*
360.0	361.9	31.25	6.81	24.52	.75*
380.1	382.0	31.25	6.78	24.52	.93*
400.2	402.2	31.25	6.77	24.53	+
420.0	422.2	31.25	6.76	24.53	.38*
440.1	442.3	31.25	6.75	24.53	.44*
460.1	462.4	31.25	6.75	24.53	.91*
480.0	482.4	31.25	6.75	24.53	+
500.3	502.8	31.25	6.75	24.53	

MAX DEPTH 502.6



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 02 KNIGHT  
 LAT N50 52.40  
 DATE 19/ 6/79  
 TIME (PST) 0320

TAPE: CZO/79/ 3-133  
 LONG W125 38.50  
 PASS NO. 27  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	4.33	13.51	2.74	5.28
2.1	2.1	4.49	13.50	2.87	20.76
5.2	5.2	9.46	13.07	6.76	109.69
10.2	10.2	27.89	9.07	21.58	40.82
15.1	15.2	29.39	8.09	22.59	16.06
20.2	20.3	29.99	7.56	23.43	17.74
25.1	25.2	30.30	7.21	23.73	17.32
30.2	30.3	30.52	7.07	23.91	9.91
35.0	35.2	30.70	6.99	24.07	5.93
40.1	40.3	30.75	6.90	24.12	6.78
45.2	45.4	30.80	6.86	24.16	5.26*
50.2	50.4	30.84	6.85	24.20	4.72
60.2	60.5	30.92	6.82	24.26	5.47*
70.1	70.4	30.98	6.80	24.31	2.97*
80.2	80.6	31.01	6.79	24.33	2.62*
90.2	90.7	31.03	6.77	24.35	4.63
100.1	100.6	31.07	6.77	24.38	2.54*
110.1	110.6	31.09	6.79	24.40	2.05*
120.0	120.6	31.11	6.80	24.41	2.15*
130.0	130.7	31.13	6.82	24.42	2.98
140.2	140.9	31.13	6.82	24.43	1.80*
150.1	150.9	31.16	6.92	24.44	1.73*
160.1	160.9	31.19	7.00	24.45	1.92*
170.0	170.9	31.21	7.04	24.46	1.65*
180.0	180.9	31.22	7.02	24.47	1.90
190.0	191.0	31.22	6.97	24.48	1.75*
200.0	201.0	31.22	6.93	24.48	1.20*
210.2	211.3	31.21	6.89	24.48	1.43*
220.0	221.1	31.22	6.83	24.50	1.23*
230.1	231.3	31.22	6.82	24.50	1.23*
240.3	241.5	31.23	6.82	24.50	1.23*
250.1	251.4	31.23	6.82	24.51	+
260.1	261.4	31.22	6.83	24.50	4.20
270.0	271.4	31.24	6.83	24.51	1.39*
280.2	281.6	31.24	6.84	24.51	1.57*
290.1	291.5	31.25	6.84	24.52	1.49*
300.2	301.7	31.26	6.85	24.52	1.14*
310.1	311.6	31.25	6.84	24.52	.90*
320.2	321.8	31.26	6.85	24.52	.79*
330.1	331.8	31.26	6.85	24.53	1.00*
340.1	341.8	31.26	6.84	24.52	.85*
360.2	362.0	31.25	6.81	24.53	.78*
380.1	382.0	31.25	6.79	24.53	.88*
400.0	402.0	31.25	6.79	24.53	+
420.1	422.2	31.26	6.77	24.53	+
440.1	442.3	31.25	6.77	24.53	.78*
460.2	462.5	31.25	6.76	24.53	.65*
480.1	482.6	31.26	6.76	24.54	

MAX DEPTH 485.3



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 02 KNIGHT  
 LAT N50 54.30  
 DATE 19/ 6/79  
 TIME (PST) 0412

TAPE: CZ0/79/ 3-134  
 LONG W125 32.80  
 PASS NO. 29  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	2.95	12.79	1.77	2.36
2.1	2.1	3.19	12.83	1.95	27.75
5.0	5.0	3.23	12.62	5.87	108.16
10.1	10.1	27.10	9.37	20.93	38.94
15.1	15.2	28.94	8.37	22.50	24.10
20.1	20.2	29.89	7.61	23.35	18.87
25.0	25.1	30.20	7.32	23.63	12.22
30.1	30.2	30.40	7.07	23.82	11.21
35.2	35.4	30.53	7.01	23.93	7.57
40.1	40.3	30.65	6.94	24.03	7.24
45.1	45.3	30.74	6.89	24.11	8.56
50.3	50.5	30.81	6.88	24.17	6.14
60.2	60.4	30.91	6.85	24.25	4.40*
70.2	70.5	30.96	6.83	24.29	3.62*
80.0	80.4	31.01	6.80	24.34	4.68
90.1	90.5	31.04	6.81	24.36	2.43*
100.0	100.5	31.07	6.84	24.38	2.77*
110.0	110.6	31.10	6.88	24.39	2.37*
120.2	120.8	31.11	6.90	24.40	2.12*
130.0	130.7	31.14	6.91	24.42	2.18*
140.0	140.7	31.17	6.93	24.44	2.48*
150.0	150.8	31.18	7.00	24.44	2.72
160.1	160.9	31.20	7.07	24.45	2.56*
170.2	171.0	31.24	7.20	24.47	1.22*
180.0	180.9	31.25	7.15	24.47	3.00*
190.2	191.1	31.23	7.04	24.48	1.31*
200.1	201.1	31.23	6.98	24.48	1.49*
210.1	211.1	31.22	6.92	24.48	1.21*
220.2	221.3	31.22	6.89	24.49	1.36*
230.1	231.3	31.22	6.86	24.49	1.41*
240.2	241.4	31.22	6.83	24.50	1.37*
250.2	251.4	31.23	6.83	24.50	1.32*
260.1	261.4	31.24	6.83	24.51	1.20*
270.3	271.6	31.25	6.84	24.51	1.17*
280.1	281.5	31.25	6.85	24.52	1.11*
290.2	291.7	31.26	6.86	24.52	1.00*
300.2	301.7	31.26	6.86	24.52	.70*
310.3	311.8	31.26	6.87	24.52	.68*
320.1	321.7	31.27	6.87	24.53	.82*
330.1	331.8	31.27	6.86	24.53	.75*
340.1	341.8	31.26	6.84	24.53	.57*
360.1	361.9	31.26	6.81	24.53	.62*
380.2	382.1	31.26	6.80	24.53	.56*
400.0	402.1	31.26	6.79	24.53	+

MAX DEPTH 410.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 02 KNIGHT  
 LAT N50 58.90  
 DATE 19/ 6/79  
 TIME (PST) 0513

TAPE: CZC/79/ 3-135  
 LONG W125 33.20  
 PASS NO. 31  
 STA: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.84	11.51	.29	102.58
2.1	2.1	1.00	11.56	.41	28.38*
5.1	5.0	1.28	11.71	.61	72.05
10.1	10.1	28.02	8.81	21.73	41.52
15.1	15.2	29.56	7.81	23.07	21.28
20.2	20.3	30.15	7.29	23.60	13.70
25.1	25.2	30.39	7.08	23.81	10.37
30.1	30.3	30.56	6.99	23.95	8.36
35.2	35.4	30.69	6.92	24.07	8.42
40.2	40.4	30.77	6.91	24.13	6.60
45.1	45.3	30.83	6.89	24.18	5.04
50.2	50.4	30.89	6.92	24.22	5.96
60.1	60.3	30.96	6.90	24.28	4.96
70.1	70.4	31.01	6.91	24.32	3.49
80.1	80.5	31.06	6.93	24.35	3.32*
90.0	90.5	31.08	6.91	24.37	2.89*
100.3	100.8	31.11	6.92	24.40	2.04*
110.2	110.8	31.12	6.96	24.40	2.39*
120.1	120.7	31.14	6.96	24.42	1.86*
130.1	130.7	31.17	7.03	24.43	2.16*
140.1	140.8	31.20	7.09	24.45	2.03*
150.1	150.9	31.23	7.21	24.46	1.96*
160.1	160.9	31.25	7.25	24.46	1.85*
170.2	171.1	31.24	7.16	24.47	1.39*
180.4	181.3	31.24	7.10	24.48	1.25*
190.1	191.0	31.24	6.97	24.49	1.71*
200.1	201.1	31.23	6.89	24.49	1.50*
210.3	211.3	31.23	6.86	24.50	1.43*
220.2	221.3	31.23	6.84	24.50	.58*
230.1	231.3	31.23	6.83	24.50	1.42*
240.1	241.3	31.23	6.82	24.51	1.28*
250.2	251.5	31.24	6.82	24.51	1.15*
260.2	261.5	31.24	6.84	24.51	1.11*
270.0	271.4	31.25	6.85	24.52	1.24*
280.2	281.6	31.26	6.86	24.52	1.11*
290.1	291.6	31.27	6.87	24.53	1.30*
300.2	301.7	31.26	6.87	24.52	1.15*
310.2	311.7	31.27	6.87	24.53	.95*

MAX DEPTH 319.6

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 02 KNIGHT

LAT N51 02.30

DATE 19/ 6/79

TIME (PST) 0556

TAPE: CZ0/79/ 3-136

LONG W125 33.80

PASS NO. 33

STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.36	10.63	.01	116.71
2.1	2.0	.32	10.63	-.02	30.81*
5.2	5.1	1.20	10.10	.71	78.30
10.1	10.1	27.83	8.88	21.57	39.89
15.2	15.3	29.84	7.71	23.14	22.24
20.1	20.2	30.13	7.26	23.58	13.61
25.2	25.3	30.40	7.08	23.82	10.83
30.2	30.3	30.58	6.97	23.98	8.35
35.2	35.3	30.70	6.95	24.08	8.06
40.1	40.3	30.77	6.92	24.13	6.62
45.1	45.3	30.84	6.91	24.19	5.36*
50.3	50.5	30.89	6.93	24.22	4.29*
60.2	60.5	30.94	6.96	24.26	3.83
70.0	70.4	30.96	6.96	24.28	3.89*
80.1	80.5	31.08	7.06	24.35	5.93*
90.1	90.6	31.14	7.10	24.40	3.11*
100.1	100.6	31.16	7.03	24.42	1.61*
110.2	110.7	31.16	7.06	24.42	3.57
120.2	120.8	31.18	7.08	24.43	1.31*
130.1	130.8	31.20	7.12	24.44	1.51*
140.1	140.8	31.22	7.18	24.45	1.59*
150.1	150.9	31.23	7.21	24.45	1.48*
160.0	160.8	31.25	7.25	24.47	1.81*
170.0	170.9	31.26	7.22	24.47	1.58*
180.2	181.1	31.24	7.11	24.48	.99*
190.2	191.2	31.23	7.01	24.48	.80*
200.3	201.3	31.24	6.96	24.49	2.76
210.0	211.1	31.23	6.88	24.50	1.20*
220.3	221.4	31.23	6.85	24.50	.89*

MAX DEPTH 226.3



CRUISE NO. 79-06 (NO. 24)





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 38.10  
 DATE 17/ 7/79  
 TIME (PST) 1822

TAPE: CZ0/79/ 3-113  
 LONG W126 25.20  
 PASS NO. 1  
 STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.5	.5	24.77	13.35	18.47	+
2.2	2.2	25.52	12.80	19.15	31.79
5.1	5.1	27.76	10.48	21.27	32.81
10.1	10.1	29.14	9.26	22.53	33.88
15.1	15.2	30.00	8.57	23.30	13.79
20.1	20.1	30.18	8.56	23.45	7.13
25.2	25.3	30.53	8.52	23.72	20.88
30.0	30.2	30.84	8.37	23.98	6.32
35.1	35.3	30.90	8.37	24.04	8.52
40.2	40.4	31.02	8.29	24.14	5.58
45.1	45.3	31.08	8.21	24.20	6.08*
50.3	50.5	31.11	8.20	24.22	5.14
60.1	60.4	31.24	8.08	24.34	5.28*
70.0	70.4	31.29	8.00	24.39	3.23*
80.1	80.5	31.32	8.02	24.41	4.99*
90.2	90.7	31.43	7.93	24.51	4.95
100.1	100.6	31.48	7.90	24.56	4.69*
110.3	110.9	31.62	7.77	24.68	6.25
120.1	120.7	31.68	7.72	24.74	4.87
130.2	130.9	31.76	7.69	24.81	3.85*
140.2	140.9	31.83	7.68	24.86	3.04*
150.1	150.9	31.83	7.68	24.86	1.65*
160.1	161.0	31.84	7.68	24.87	2.24*
170.2	171.1	31.87	7.67	24.89	3.25
180.0	181.0	31.89	7.66	24.91	2.99*
190.1	191.1	31.90	7.66	24.92	1.19*
200.0	201.1	31.90	7.66	24.91	+
210.1	211.2	31.92	7.66	24.93	1.48*
220.2	221.4	31.92	7.66	24.93	1.54*
230.2	231.4	31.92	7.66	24.93	+
240.2	241.5	31.92	7.66	24.94	1.15*
250.1	251.5	31.93	7.66	24.94	

MAX DEPTH 252.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 38.50  
 DATE 17/ 7/79  
 TIME (PST) 1916

TAPE: CZ0/79/ 3-114  
 LONG W126 17.30  
 PASS NO. 3  
 STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.3	.3	26.45	11.60	20.07	16.55
2.3	2.3	26.53	11.52	20.15	10.06
5.1	5.1	26.61	11.45	20.22	15.74
10.2	10.2	28.50	9.52	22.00	29.67
15.0	15.1	29.67	8.45	23.06	26.30
20.2	20.3	30.54	8.20	23.78	11.03
25.0	25.2	30.75	8.14	23.95	6.25
30.3	30.4	30.79	8.03	23.99	7.00*
35.2	35.4	30.91	8.01	24.10	5.60
40.2	40.4	30.96	7.76	24.17	9.12
45.2	45.4	31.05	7.77	24.24	6.04*
50.1	50.4	31.11	7.73	24.29	7.63
60.0	60.3	31.25	7.65	24.41	4.46
70.1	70.4	31.31	7.68	24.45	5.65
80.2	80.6	31.49	7.65	24.60	4.17*
90.0	90.5	31.51	7.65	24.61	5.84*
100.1	100.7	31.67	7.66	24.73	4.84*
110.2	110.8	31.76	7.67	24.80	7.09
120.1	120.7	31.76	7.67	24.81	+
130.0	130.7	31.81	7.66	24.85	3.81
140.1	140.9	31.84	7.66	24.87	2.73*
150.1	150.9	31.86	7.66	24.89	1.99
160.1	161.0	31.88	7.66	24.90	2.01*
170.1	171.0	31.88	7.67	24.90	1.23*
180.1	181.0	31.89	7.68	24.90	1.35*
190.2	191.2	31.89	7.67	24.91	3.24
200.0	201.1	31.90	7.68	24.91	+
210.2	211.4	31.98	7.68	24.97	+
220.2	221.4	31.97	7.68	24.97	+

MAX DEPTH 229.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 39.20  
 DATE 17/ 7/79  
 TIME (PST) 1950

TAPE: CZ0/79/ 3-115  
 LONG W126 12.50  
 PASS NO. 5  
 STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	17.41	13.16	12.85	87.14
2.1	2.1	24.07	12.26	18.12	36.00
5.0	5.0	25.47	11.66	19.30	59.37
10.1	10.2	29.39	8.55	22.83	39.79
15.1	15.2	30.16	8.08	23.50	13.82
20.0	20.1	30.60	7.90	23.86	16.28
25.2	25.3	30.74	7.86	23.98	8.40*
30.1	30.2	30.80	7.73	24.05	5.51*
35.1	35.3	30.85	7.75	24.08	4.59*
40.2	40.4	30.85	7.66	24.09	5.29
45.2	45.4	30.89	7.60	24.13	5.89*
50.0	50.3	30.91	7.57	24.15	5.17
60.0	60.3	31.15	7.52	24.35	5.10
70.1	70.4	31.23	7.54	24.41	4.47*
80.0	80.4	31.34	7.61	24.49	5.83*
90.2	90.7	31.41	7.63	24.54	4.39
100.0	100.5	31.53	7.63	24.63	6.59
110.2	110.7	31.69	7.66	24.75	4.92*
120.1	120.7	31.74	7.66	24.79	3.46*
130.1	130.8	31.79	7.65	24.83	3.82
140.1	140.9	31.82	7.65	24.85	2.24*
150.3	151.1	31.84	7.66	24.87	2.71*
160.2	161.1	31.87	7.66	24.89	2.50*
170.2	171.2	31.89	7.66	24.91	1.90*
180.2	181.2	31.92	7.65	24.93	3.01*
190.2	191.2	31.92	7.65	24.94	3.24

MAX DEPTH 197.3

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 39.90  
 DATE 17/ 7/79  
 TIME (PST) 2037

TAPE: CZ0/79/ 3-116  
 LONG W126 04.20  
 PASS NO. 7  
 STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.5	.5	19.39	13.43	14.33	147.51
2.0	2.0	27.24	9.49	21.02	66.43
5.0	5.0	27.92	9.10	21.60	30.33
10.2	10.2	29.27	8.29	22.77	29.43
15.1	15.2	30.45	7.67	23.78	16.02
20.1	20.2	30.71	7.48	24.01	8.67
25.1	25.2	30.79	7.45	24.07	6.10
30.0	30.2	30.90	7.49	24.16	5.57*
35.0	35.2	30.95	7.48	24.20	5.87
40.3	40.4	30.96	7.40	24.22	6.96*
45.0	45.2	30.96	7.30	24.23	5.78*
50.2	50.4	31.05	7.24	24.30	4.98
60.0	60.3	31.14	7.41	24.36	5.33
70.1	70.4	31.27	7.51	24.44	6.27*
80.2	80.6	31.50	7.59	24.61	7.25
90.2	90.7	31.65	7.62	24.73	6.19
100.1	100.6	31.72	7.64	24.78	2.80*
110.0	110.6	31.74	7.63	24.79	3.82
120.0	120.7	31.79	7.64	24.83	3.62*
130.2	130.9	31.82	7.65	24.86	1.72*
140.2	141.0	31.84	7.65	24.87	1.08*
150.1	150.9	31.85	7.66	24.88	3.28*
160.1	161.0	31.89	7.66	24.91	1.78*
170.1	171.1	31.90	7.66	24.92	+
180.2	181.1	31.91	7.66	24.92	+

MAX DEPTH 184.1



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 40.60  
 DATE 17/ 7/79  
 TIME (PST) 2111

TAPE: CZ0/79/ 3-117  
 LONG W125 59.50  
 PASS NO. 9  
 STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	17.29	13.82	12.65	35.51
2.1	2.1	21.08	12.17	15.84	78.65
5.1	5.1	27.53	9.22	21.28	32.21
10.1	10.1	29.53	8.11	23.00	22.66
15.1	15.1	30.22	7.72	23.60	16.13
20.0	20.1	30.42	7.60	23.76	10.14
25.1	25.2	30.54	7.53	23.87	7.77*
30.2	30.3	30.66	7.47	23.98	7.17
35.1	35.3	30.74	7.43	24.04	12.92
40.1	40.3	30.89	7.34	24.17	7.92
45.1	45.3	30.99	7.21	24.27	7.00*
50.1	50.4	31.01	7.15	24.29	4.18
60.2	60.5	31.02	7.00	24.32	4.88
MAX DEPTH	69.6				

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 40.60  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 40.60  
 DATE 17/ 7/79  
 TIME (PST) 2132

TAPE: CZ0/79/ 3-118  
 LONG W125 57.20  
 TAPE: CZ0/79/ 3-118  
 LONG W125 57.20  
 PASS NO. 11  
 STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.1	.1	17.46	13.46	12.84	+
2.1	2.1	17.53	13.44	12.90	24.30
5.1	5.1	20.22	12.32	15.15	66.82
10.1	10.1	29.32	8.27	22.81	30.42
15.1	15.2	29.81	7.96	23.24	12.05
20.2	20.3	30.28	7.68	23.64	10.65*
25.1	25.2	30.36	7.64	23.71	6.55*
30.2	30.3	30.41	7.61	23.76	8.06*
35.1	35.3	30.50	7.56	23.84	9.78*
40.0	40.2	30.72	7.44	24.02	6.20
45.2	45.4	30.77	7.42	24.07	5.45*
50.1	50.3	30.83	7.39	24.12	5.88
60.2	60.5	30.91	7.36	24.18	5.55
70.1	70.5	31.00	7.20	24.28	6.67
80.0	80.4	31.05	7.14	24.32	4.53
90.2	90.7	31.09	7.21	24.34	1.77*
100.2	100.7	31.10	7.14	24.36	2.65*
110.0	110.5	31.12	7.20	24.37	1.12*
120.2	120.7	31.10	7.10	24.37	1.01
130.1	130.7	31.15	7.16	24.40	4.35*
140.2	140.9	31.13	7.08	24.39	1.34*
150.2	150.9	31.12	7.05	24.39	1.36*
160.0	160.8	31.14	7.08	24.40	1.52*
170.0	170.9	31.17	7.26	24.40	1.31*
180.1	181.0	31.19	7.30	24.41	+

MAX DEPTH 181.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 40.70  
 DATE 17/ 7/79  
 TIME (PST) 2201

TAPE: CZ0/79/ 3-119  
 LONG W125 54.40  
 PASS NO. 13  
 STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	14.28	14.26	10.27	46.91
2.1	2.0	16.68	13.65	12.22	56.50
5.1	5.1	25.62	9.71	19.73	81.76
10.1	10.1	29.37	8.08	22.88	18.90
15.1	15.1	29.80	7.91	23.24	13.31
20.1	20.2	29.99	7.80	23.40	6.41*
25.1	25.2	30.16	7.72	23.55	9.95*
30.1	30.2	30.34	7.64	23.70	10.14*
35.2	35.4	30.53	7.55	23.86	10.27*
40.0	40.2	30.66	7.47	23.97	5.60
45.1	45.3	30.73	7.44	24.03	5.54
50.1	50.3	30.76	7.43	24.06	5.37*
60.2	60.5	30.91	7.33	24.19	6.39
70.1	70.4	31.00	7.29	24.26	4.06*
80.1	80.5	31.04	7.30	24.29	4.01*
90.2	90.7	31.03	7.31	24.29	1.77*
100.1	100.6	31.05	7.30	24.30	1.94*
110.2	110.7	31.08	7.30	24.32	2.45*
120.1	120.7	31.11	7.30	24.35	2.22*
130.2	130.8	31.13	7.29	24.36	.86*
140.1	140.8	31.13	7.29	24.37	1.18*
150.0	150.8	31.15	7.28	24.38	1.97*
160.2	161.0	31.17	7.28	24.39	1.51*
170.2	171.0	31.17	7.28	24.40	1.47*
180.1	181.0	31.17	7.29	24.40	1.54*
190.0	191.0	31.17	7.29	24.39	+
200.2	201.2	31.19	7.29	24.41	+
210.0	211.1	31.18	7.30	24.41	+
220.0	221.1	31.19	7.30	24.41	+
230.2	231.3	31.19	7.31	24.41	.99*
240.1	241.3	31.21	7.31	24.42	3.67*
250.1	251.3	31.21	7.33	24.42	

MAX DEPTH 255.0

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 41.10  
 DATE 17/ 7/79  
 TIME (PST) 2233

TAPE: CZ0/79/ 3-120  
 LONG W125 51.90  
 PASS NO. 15  
 STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	10.44	14.88	7.22	37.13
2.1	2.0	15.65	14.01	11.36	88.41
5.1	5.1	25.45	9.85	19.57	59.47
10.0	10.1	29.37	8.05	22.88	30.06
15.0	15.1	29.68	7.90	23.15	10.83*
20.1	20.2	29.99	7.78	23.40	9.90
25.1	25.2	30.05	7.76	23.45	8.50
30.0	30.2	30.24	7.69	23.62	12.89
35.1	35.3	30.47	7.57	23.81	14.42
40.0	40.2	30.66	7.47	23.97	5.55
45.1	45.3	30.69	7.45	24.00	5.01*
50.1	50.4	30.73	7.42	24.04	5.37
60.1	60.4	30.85	7.34	24.14	4.70*
70.0	70.4	30.90	7.30	24.18	5.12*
80.0	80.4	30.94	7.24	24.22	3.94*
90.0	90.5	30.96	7.19	24.24	4.63
100.1	100.6	31.00	7.17	24.28	3.46*
110.0	110.5	31.03	7.19	24.30	2.27*
120.1	120.7	31.06	7.21	24.32	2.90*
130.2	130.8	31.09	7.24	24.34	1.85*
140.2	140.9	31.10	7.26	24.35	1.72*
150.2	150.9	31.10	7.20	24.36	1.53*
160.1	160.9	31.10	7.00	24.38	2.65
170.1	170.9	31.11	7.00	24.39	1.61*
180.0	180.9	31.12	7.03	24.39	2.02*
190.2	191.2	31.15	7.08	24.41	1.30*
200.2	201.2	31.14	7.08	24.40	1.21*
210.1	211.2	31.16	7.11	24.41	1.56*
220.0	221.1	31.17	7.14	24.42	1.51*

MAX DEPTH 226.9

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 41.60  
 DATE 17/ 7/79  
 TIME (PST) 2314

TAPE: CZ0/79/ 3-121  
 LONG W125 49.30  
 PASS NO. 17  
 STN: 10 - TOM. ISL.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	14.02	13.77	10.15	+
2.1	2.0	14.66	13.49	10.69	48.69
5.2	5.2	24.52	10.12	18.82	67.30
10.1	10.1	28.21	8.57	21.91	28.63
15.1	15.2	29.05	8.15	22.62	18.66
20.2	20.3	29.62	7.93	23.10	13.91
25.2	25.3	29.86	7.82	23.30	7.30
30.3	30.4	30.32	7.63	23.68	12.51
35.1	35.2	30.41	7.59	23.76	6.11
40.2	40.4	30.46	7.57	23.80	6.24*
45.1	45.3	30.54	7.52	23.87	8.81
50.1	50.3	30.68	7.44	23.99	7.87
60.1	60.3	30.82	7.31	24.12	5.50*
70.1	70.4	30.88	7.32	24.17	6.05*
80.2	80.6	30.90	7.19	24.20	5.31
90.2	90.6	30.94	7.08	24.24	2.99*
100.1	100.6	30.97	7.05	24.27	2.42*
110.0	110.6	31.00	6.96	24.31	2.14*
120.1	120.7	31.04	6.93	24.34	2.85*
130.1	130.7	31.07	6.95	24.36	2.56*
140.2	140.9	31.10	6.95	24.39	2.14*
150.1	150.9	31.11	6.94	24.39	1.51*
160.2	160.9	31.12	6.95	24.40	2.96
170.1	170.9	31.13	6.96	24.41	+
180.1	181.0	31.13	6.96	24.41	1.64*
190.1	191.0	31.13	6.97	24.41	2.07
200.0	201.0	31.15	7.02	24.42	5.00
210.1	211.1	31.14	7.01	24.41	+
220.1	221.2	31.16	7.06	24.42	+
230.2	231.3	31.19	7.17	24.43	+
240.1	241.3	31.19	7.20	24.42	1.07*
250.0	251.3	31.19	7.21	24.42	1.23*
260.1	261.4	31.20	7.23	24.43	1.27*
270.2	271.5	31.21	7.22	24.43	1.66*
280.0	281.4	31.22	7.26	24.44	

MAX DEPTH 280.3



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 41.70  
 DATE 17/ 7/79  
 TIME (PST) 2338

TAPE: CZ0/79/ 3-122  
 LONG W125 46.60  
 PASS NO. 19  
 STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	10.15	14.32	7.09	11.55
2.0	2.0	10.92	14.32	7.68	53.64
5.0	5.0	23.64	10.97	18.00	141.67
10.2	10.3	27.25	8.82	21.12	11.33
15.1	15.1	29.12	8.11	22.68	20.32
20.0	20.1	29.49	7.96	22.99	19.92
25.1	25.2	30.24	7.66	23.61	10.72
30.1	30.2	30.49	7.54	23.83	8.79
35.1	35.2	30.60	7.47	23.93	8.58*
40.1	40.3	30.69	7.41	24.00	6.51*
45.2	45.4	30.74	7.36	24.05	5.29*
50.2	50.5	30.76	7.35	24.07	4.31
60.2	60.5	30.90	7.14	24.20	8.50
70.0	70.4	30.94	7.09	24.24	3.03
80.1	80.5	30.97	7.10	24.27	3.43*
90.1	90.6	30.97	6.95	24.29	4.11*
100.1	100.6	31.00	7.02	24.30	2.40*
110.2	110.8	31.02	6.93	24.32	2.42*
120.0	120.6	31.06	6.96	24.35	2.67*
130.1	130.8	31.08	6.98	24.37	4.33
140.1	140.8	31.09	6.98	24.37	+
150.2	150.9	31.11	6.96	24.39	1.99*
160.0	160.8	31.11	6.95	24.39	1.11*
170.1	170.9	31.11	6.95	24.40	.73*
180.2	181.1	31.13	6.95	24.41	1.36*
190.1	191.0	31.13	6.96	24.41	1.57*
200.2	201.2	31.16	7.04	24.42	1.69*
210.2	211.2	31.16	7.06	24.42	.98*
220.2	221.2	31.19	7.10	24.43	1.34*
230.0	231.1	31.19	7.18	24.43	1.13*
240.3	241.4	31.19	7.21	24.42	1.09*
250.1	251.3	31.21	7.24	24.43	1.53*
260.1	261.4	31.21	7.26	24.43	2.75
270.1	271.5	31.22	7.31	24.43	1.48*
280.1	281.5	31.25	7.38	24.45	
290.2	291.6	31.25	7.39	24.45	+
300.2	301.7	31.26	7.39	24.45	+

MAX DEPTH 302.4

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 41.90  
 DATE 18/ 7/79  
 TIME (PST) 0004

TAPE: CZ0/79/ 3-123  
 LONG W125 43.50  
 PASS NO. 21  
 STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	8.38	14.30	5.74	5.17
2.2	2.1	8.97	14.40	6.17	32.29
5.0	5.0	14.32	13.03	10.50	70.97
10.1	10.1	28.71	8.29	22.33	41.38
15.0	15.1	29.60	7.92	23.08	16.37
20.1	20.2	30.19	7.68	23.57	12.70
25.2	25.3	30.46	7.55	23.80	7.99
30.2	30.4	30.54	7.52	23.87	6.77*
35.1	35.3	30.58	7.47	23.91	6.46*
40.0	40.2	30.69	7.40	24.00	8.06
45.2	45.4	30.76	7.33	24.07	6.36
50.3	50.5	30.79	7.28	24.10	4.55
60.3	60.6	30.85	7.19	24.16	4.13
70.0	70.4	30.90	6.94	24.23	4.89*
80.1	80.5	30.94	6.90	24.27	2.46*
90.1	90.5	30.97	6.90	24.29	3.20
100.2	100.7	31.03	6.93	24.34	4.90*
110.2	110.8	31.07	6.98	24.35	2.62*
120.2	120.8	31.09	7.00	24.37	1.90*
130.2	130.8	31.11	6.99	24.39	1.13*
140.1	140.8	31.11	6.97	24.39	1.38*
150.2	150.9	31.11	6.94	24.39	4.40
160.1	160.9	31.11	6.93	24.40	.88
170.1	171.0	31.12	6.93	24.40	+
180.1	181.0	31.13	6.93	24.41	2.20*
190.1	191.0	31.13	6.93	24.41	1.13*
200.1	201.1	31.13	6.93	24.41	1.58*
210.3	211.3	31.14	6.94	24.42	1.83*
220.2	221.3	31.15	6.94	24.42	1.61*
230.3	231.4	31.15	6.93	24.43	+
240.2	241.4	31.15	6.94	24.42	.64*
250.2	251.4	31.16	6.99	24.42	1.07*
260.1	261.4	31.17	7.00	24.43	.37*
270.2	271.5	31.16	7.01	24.43	.63*
280.2	281.6	31.18	7.05	24.44	1.26*
290.1	291.6	31.20	7.11	24.45	4.76
300.1	301.6	31.20	7.16	24.44	+
310.0	311.6	31.21	7.21	24.44	.97*
320.3	321.9	31.23	7.26	24.44	.59*
330.1	331.8	31.23	7.29	24.44	.96*
340.3	342.0	31.23	7.31	24.44	.64

MAX DEPTH 348.2

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 06 KNIGHT

LAT N50 45.10

DATE 18/ 7/79

TIME (PST) 0044

TAPE: CZ0/79/ 3-124

LONG W125 41.00

PASS NO. 23

STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.1	.1	5.85	14.08	3.83	+
2.0	2.0	6.07	14.11	3.99	73.96
5.2	5.1	24.82	9.80	19.10	98.48
10.2	10.2	28.82	8.29	22.42	26.30
15.1	15.2	29.59	7.95	23.07	25.38
20.2	20.3	30.00	7.70	23.42	7.37
25.2	25.3	30.25	7.63	23.63	15.77
30.1	30.2	30.42	7.56	23.78	11.25
35.1	35.2	30.57	7.41	23.91	5.97
40.3	40.5	30.63	7.30	23.97	7.89
45.2	45.4	30.69	7.32	24.01	6.53*
50.2	50.4	30.79	7.19	24.11	5.80
60.1	60.4	30.84	7.04	24.17	4.70
70.2	70.5	30.89	6.94	24.22	5.16*
80.0	80.4	30.95	6.90	24.28	3.56*
90.1	90.6	30.99	6.91	24.30	3.50*
100.2	100.7	31.03	6.94	24.33	2.63*
110.2	110.8	31.04	6.98	24.34	2.59*
120.1	120.7	31.07	7.03	24.36	2.33*
130.2	130.9	31.11	7.10	24.37	1.66*
140.1	140.8	31.11	6.98	24.39	1.28*
150.3	151.0	31.12	6.99	24.40	1.40*
160.1	160.9	31.12	6.95	24.40	1.30*
170.3	171.2	31.13	6.91	24.41	1.20*
180.1	181.0	31.13	6.91	24.42	1.02*
190.1	191.0	31.13	6.92	24.41	4.28
200.3	201.2	31.13	6.93	24.41	+
210.2	211.3	31.14	6.93	24.42	1.33*
220.1	221.2	31.14	6.91	24.42	+
230.2	231.4	31.15	6.92	24.43	2.80
240.1	241.3	31.16	6.93	24.43	1.70*
250.3	251.6	31.15	6.92	24.43	1.11*
260.2	261.5	31.16	6.92	24.43	.29*
270.1	271.4	31.16	6.89	24.44	.45*
280.2	281.6	31.16	6.89	24.44	+
290.1	291.6	31.16	6.89	24.44	1.19*
300.1	301.6	31.15	6.89	24.44	+
310.1	311.6	31.16	6.89	24.44	.78*
320.1	321.7	31.16	6.92	24.44	3.04*
330.1	331.7	31.16	6.92	24.44	1.65*
340.1	341.8	31.20	6.99	24.46	

MAX DEPTH 343.8

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 52.40  
 DATE 18/ 7/79  
 TIME (PST) 0233

TAPE: CZ0/79/ 3-127  
 LONG W125 38.50  
 PASS NO. 29  
 STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.1	.1	3.36	13.96	1.93	40.62
2.0	2.0	6.31	13.35	4.29	97.31
5.1	5.1	22.87	10.04	17.55	93.37
10.2	10.2	28.56	8.62	22.17	31.93
15.1	15.2	29.59	7.93	23.07	16.03
20.0	20.1	30.13	7.48	23.56	15.19
25.1	25.2	30.36	7.27	23.76	7.20
30.3	30.4	30.47	7.19	23.86	7.98
35.1	35.2	30.61	7.10	23.98	9.39
40.3	40.5	30.67	7.11	24.03	7.07*
45.2	45.4	30.74	7.03	24.09	5.25
50.3	50.6	30.78	6.95	24.14	6.35*
60.4	60.6	30.82	6.94	24.17	3.98*
70.1	70.4	30.90	6.90	24.24	4.40
80.3	80.7	30.96	6.89	24.29	2.99*
90.1	90.5	30.99	6.89	24.31	3.96
100.1	100.6	31.04	6.95	24.34	3.84*
110.2	110.8	31.07	7.05	24.35	2.36*
120.2	120.8	31.09	7.09	24.36	3.95*
130.3	131.0	31.13	7.12	24.39	3.92
140.2	140.9	31.12	7.07	24.39	1.74*
150.1	150.9	31.12	6.99	24.40	1.73*
160.2	161.0	31.13	6.95	24.41	1.93
170.1	171.0	31.12	6.94	24.40	1.82*
180.0	180.9	31.14	6.92	24.42	.88*
190.3	191.3	31.13	6.93	24.41	.43*
200.3	201.3	31.14	6.92	24.42	1.21*
210.2	211.2	31.14	6.93	24.42	1.58*
220.3	221.4	31.14	6.93	24.42	1.23*
230.2	231.3	31.16	6.93	24.44	1.19*
240.2	241.4	31.16	6.93	24.43	1.37*
250.3	251.5	31.16	6.92	24.44	+
260.3	261.6	31.18	6.95	24.45	4.50*
270.2	271.5	31.17	6.94	24.44	+
280.1	281.5	31.17	6.92	24.44	1.36*
290.4	291.8	31.17	6.90	24.45	5.00
300.2	301.7	31.17	6.90	24.45	+
310.3	311.9	31.18	6.90	24.45	+
320.1	321.7	31.17	6.89	24.45	1.27*
330.6	332.2	31.16	6.89	24.44	+
340.5	342.2	31.17	6.88	24.45	1.78
360.3	362.1	31.17	6.86	24.45	+
380.2	382.1	31.20	7.01	24.45	1.33
400.2	402.2	31.24	7.23	24.46	.59*
420.3	422.4	31.27	7.32	24.47	1.88
440.2	442.4	31.27	7.33	24.47	+
460.4	462.7	31.27	7.37	24.47	+
480.1	482.5	31.29	7.39	24.48	+

MAX DEPTH 487.4



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 54.30  
 DATE 18/ 7/79  
 TIME (PST) 0309

TAPE: CZ0/79/ 3-128  
 LONG W125 32.80  
 PASS NO. 31  
 STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	1.05	9.65	.64	43.61
2.1	2.0	2.55	8.83	1.89	47.15
5.1	5.0	7.53	9.51	5.71	135.26
10.1	10.1	27.63	9.12	21.37	42.89
15.1	15.1	29.37	8.02	22.88	22.26
20.4	20.4	29.95	7.60	23.40	15.19
25.2	25.3	30.20	7.41	23.62	13.81
30.1	30.2	30.35	7.26	23.76	8.68
35.1	35.2	30.50	7.14	23.89	7.99
40.1	40.3	30.60	7.06	23.98	4.75
45.1	45.4	30.69	7.01	24.05	5.82
50.2	50.4	30.73	7.00	24.09	5.09*
60.2	60.5	30.84	6.95	24.18	4.53*
70.0	70.4	30.88	6.94	24.21	4.21*
80.3	80.7	30.94	6.96	24.25	6.47
90.2	90.6	31.00	7.05	24.29	3.22*
100.2	100.7	31.05	7.06	24.33	4.18*
110.3	110.9	31.08	7.16	24.34	2.03*
120.0	120.6	31.11	7.23	24.36	4.57*
130.1	130.7	31.15	7.31	24.38	1.82*
140.3	141.0	31.15	7.31	24.38	1.16*
150.1	150.9	31.14	7.19	24.38	1.28*
160.2	161.0	31.14	7.08	24.40	3.69
170.0	170.8	31.13	7.03	24.40	3.26
180.1	181.0	31.14	6.97	24.41	1.48*
190.0	190.9	31.13	6.93	24.41	1.10*
200.0	201.0	31.14	6.93	24.42	1.62*
210.3	211.4	31.15	6.93	24.42	1.32*
220.1	221.2	31.15	6.93	24.43	1.01*
230.4	231.5	31.16	6.94	24.44	1.72*
240.2	241.3	31.16	6.95	24.43	1.62
250.3	251.6	31.17	6.95	24.44	3.62*
260.2	261.5	31.16	6.94	24.44	+
270.1	271.5	31.17	6.95	24.44	3.76*
280.2	281.5	31.17	6.91	24.44	1.24*
290.0	291.5	31.16	6.91	24.44	4.43*
300.3	301.8	31.16	6.91	24.44	1.44*
310.4	312.0	31.17	6.89	24.45	1.09*
320.4	322.0	31.18	6.88	24.46	.94*
330.3	332.0	31.16	6.88	24.44	3.68
340.1	341.8	31.17	6.87	24.45	.83*
360.1	361.9	31.16	6.88	24.44	+
380.3	382.2	31.18	6.94	24.45	1.01*
400.1	402.1	31.23	7.15	24.46	+

MAX DEPTH 413.9



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N50 58.90  
 DATE 18/ 7/79  
 TIME (PST) 0355

TAPÉ: CZ0/79/ 3-129  
 LONG W125 33.20  
 PASS NO. 33  
 STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.2	.2	.54	10.19	.19	+
2.1	2.1	.77	9.93	.40	131.79
5.1	5.1	20.05	9.95	15.38	111.65
10.2	10.2	27.97	8.88	21.67	40.12
15.3	15.3	29.51	7.88	23.01	18.24
20.1	20.1	29.91	7.53	23.37	12.92
25.2	25.3	30.15	7.31	23.60	9.64
30.3	30.4	30.37	7.16	23.79	10.91
35.1	35.2	30.48	7.11	23.88	7.91
40.2	40.4	30.57	7.06	23.96	7.20
45.2	45.4	30.66	7.03	24.03	6.94
50.2	50.4	30.77	7.02	24.12	6.85
60.2	60.5	30.87	7.02	24.19	5.87
70.3	70.6	30.92	7.01	24.23	4.80
80.0	80.4	30.97	7.04	24.27	3.13
90.4	90.8	31.02	7.02	24.31	3.52*
100.3	100.7	31.05	7.06	24.33	2.46*
110.5	111.0	31.08	7.14	24.35	2.62*
120.2	120.8	31.12	7.25	24.36	4.10*
130.2	130.9	31.16	7.32	24.38	1.84*
140.2	140.9	31.15	7.24	24.39	1.53*
150.2	150.9	31.13	7.13	24.39	1.64*
160.1	160.9	31.13	7.06	24.40	1.23*
170.2	171.1	31.13	6.98	24.41	1.01*
180.2	181.0	31.14	6.94	24.42	1.30*
190.0	191.0	31.13	6.93	24.41	+
200.3	201.3	31.14	6.93	24.42	1.37*
210.1	211.2	31.15	6.93	24.43	5.41*
220.1	221.2	31.16	6.94	24.43	+
230.2	231.3	31.16	6.94	24.44	+
240.4	241.6	31.17	6.95	24.44	1.32*
250.2	251.5	31.17	6.95	24.44	1.34*
260.5	261.8	31.17	6.96	24.44	1.56*
270.1	271.4	31.16	6.96	24.43	1.55
280.1	281.5	31.17	6.96	24.44	+
290.4	291.8	31.17	6.95	24.44	+
300.4	301.9	31.18	6.93	24.45	4.16*
310.3	311.8	31.17	6.92	24.44	+
320.0	321.6	31.17	6.91	24.45	+

MAX DEPTH 326.7

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 06 KNIGHT  
 LAT N51 02.30  
 DATE 18/ 7/79  
 TIME (PST) 0430

TAPE: CZ0/79/ 3-130  
 LONG W125 33.80  
 PASS NO. 35  
 STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	1.02	9.55	.62	103.19
2.1	2.1	11.90	7.47	9.31	117.31
5.1	5.1	25.95	9.59	20.00	51.48
10.1	10.1	28.75	8.43	22.35	28.96
15.1	15.1	29.68	7.70	23.18	18.53
20.0	20.1	30.12	7.30	23.57	11.10
25.2	25.3	30.31	7.20	23.73	8.15
30.3	30.5	30.41	7.13	23.82	7.73
35.3	35.4	30.51	7.09	23.91	7.05
40.2	40.4	30.62	7.05	23.99	7.00
45.3	45.5	30.70	7.04	24.06	6.61
50.3	50.5	30.78	7.03	24.12	7.16*
60.2	60.5	30.87	7.03	24.19	5.64
70.2	70.6	30.93	7.05	24.24	3.36*
80.3	80.7	30.98	7.05	24.28	3.82
90.4	90.8	31.02	7.09	24.31	3.06*
100.5	101.0	31.05	7.12	24.32	2.70*
110.3	110.9	31.10	7.20	24.35	2.13*
120.3	120.8	31.11	7.23	24.36	3.87*
130.0	130.7	31.14	7.31	24.37	4.07
140.0	140.7	31.16	7.28	24.39	1.83*
150.4	151.1	31.14	7.17	24.39	3.95
160.3	161.1	31.13	7.06	24.40	2.25*
170.1	170.9	31.14	7.00	24.41	1.26*
180.0	180.9	31.14	6.95	24.42	2.48*
190.3	191.3	31.14	6.93	24.42	1.16*
200.1	201.1	31.14	6.93	24.42	5.81
210.0	211.1	31.15	6.94	24.43	1.05*
220.1	221.2	31.17	6.95	24.44	.83*
230.5	231.6	31.17	6.96	24.44	1.26*

MAX DEPTH 235.0

CRUISE NO. 79-25 (25)



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 38.10

DATE 4/12/79

TIME (PST) 1247

TAPE: CZO/80/ 1-073

LONG W126 25.20

PASS NO. 33

STN: 19 - KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	.00	7.71	-.04	157.04*
2.2	2.2	.00	7.69	-.04	38.48*
5.1	5.2	31.08	7.72	24.26	106.64*
10.4	10.4	30.87	7.73	24.10	56.23*
15.0	15.1	30.87	7.81	24.09	5.82*
20.2	20.3	30.94	7.88	24.13	2.78*
25.0	25.1	30.94	7.89	24.13	1.21*
30.4	30.6	30.94	7.90	24.13	4.63
35.3	35.4	31.02	8.00	24.18	6.78*
40.0	40.2	31.01	8.03	24.17	.88*
45.2	45.4	31.03	8.02	24.19	1.12*
50.1	50.3	31.02	8.04	24.18	+
60.6	60.8	31.05	8.06	24.19	2.08
70.4	70.8	31.06	8.08	24.20	+
80.0	80.4	31.14	8.19	24.25	3.24*
90.1	90.6	31.17	8.22	24.27	4.54*
100.3	100.8	31.21	8.29	24.29	2.18*
110.3	110.8	31.22	8.31	24.29	1.11*
120.2	120.7	31.22	8.31	24.29	+
130.5	131.1	31.24	8.33	24.30	2.25*
140.1	140.8	31.27	8.40	24.32	2.45*
150.2	150.9	31.30	8.42	24.34	1.86*
160.3	161.0	31.31	8.45	24.34	1.66*
170.1	170.9	31.32	8.46	24.35	1.75*
180.2	181.1	31.32	8.49	24.35	3.91
190.1	191.0	31.34	8.49	24.36	2.10
200.5	201.4	31.33	8.50	24.35	+
225.2	226.3	31.35	8.52	24.37	+
MAX DEPTH	243.6				



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 38.50

DATE 4/12/79

TIME (PST) 1340

TAPE: CZ0/80/ 1-074

LONG W126 17.30

PASS NO. 35

STN: 18 - KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.77	7.85	24.01	4.88
2.2	2.2	30.76	7.84	24.00	4.39
5.3	5.3	30.76	7.81	24.00	4.41*
10.2	10.2	30.80	7.84	24.03	4.95*
15.2	15.3	30.87	7.92	24.08	3.14*
20.3	20.4	30.88	7.93	24.08	1.98
25.1	25.2	30.89	7.93	24.09	5.23
30.0	30.2	30.95	8.00	24.13	6.01*
35.4	35.5	31.00	8.04	24.16	2.99*
40.4	40.6	31.06	8.13	24.19	2.72*
45.3	45.5	31.08	8.18	24.20	2.53*
50.3	50.5	31.09	8.18	24.21	2.50*
60.1	60.4	31.14	8.24	24.24	2.21*
70.1	70.4	31.15	8.26	24.24	+
80.2	80.6	31.16	8.27	24.25	1.07*
90.1	90.6	31.16	8.27	24.25	1.31*
100.3	100.8	31.16	8.28	24.25	+
110.2	110.7	31.23	8.31	24.30	5.66*
120.1	120.6	31.24	8.37	24.30	2.56*
130.1	130.8	31.26	8.38	24.32	2.32*
140.1	140.8	31.29	8.41	24.33	2.09*
150.0	150.7	31.30	8.44	24.34	2.11*
160.4	161.1	31.32	8.45	24.35	3.91
170.7	171.5	31.32	8.47	24.35	2.33
180.0	180.9	31.33	8.49	24.35	4.94*
190.0	191.0	31.34	8.49	24.36	+
200.1	201.1	31.33	8.50	24.35	+
225.3	226.4	31.34	8.50	24.36	+
MAX DEPTH 237.5					

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 39.20

DATE 4/12/79

TIME (PST) 1410

TAPE: CZ0/80/ 1-075

LONG W126 12.50

PASS NO. 37

STN: 17 - MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.58	7.67	23.88	7.91
2.1	2.1	30.69	7.70	23.96	2.40*
5.3	5.3	30.70	7.73	23.97	6.54
10.4	10.4	30.82	7.87	24.04	5.17
15.1	15.2	30.84	7.91	24.05	3.28*
20.2	20.3	30.85	7.92	24.06	2.06*
25.2	25.3	30.86	7.93	24.07	1.41*
30.4	30.6	30.86	7.93	24.06	1.62*
35.2	35.3	30.87	7.93	24.07	2.54*
40.1	40.3	30.88	7.94	24.08	3.45
45.4	45.6	30.91	7.99	24.10	3.50*
50.0	50.2	30.93	8.01	24.11	2.93
60.3	60.6	31.04	8.11	24.18	3.91*
70.1	70.4	31.06	8.18	24.19	3.35*
80.0	80.4	31.14	8.25	24.24	3.86*
90.2	90.6	31.20	8.33	24.27	2.92*
100.4	100.9	31.24	8.37	24.30	1.96*
110.4	110.9	31.28	8.39	24.33	3.07*
120.1	120.6	31.29	8.42	24.33	1.71*
130.0	130.7	31.29	8.43	24.33	.86*
140.1	140.8	31.31	8.44	24.34	1.08*
150.3	151.0	31.30	8.44	24.34	1.29*
160.4	161.1	31.31	8.44	24.34	+
170.3	171.1	31.31	8.48	24.34	+
180.0	180.9	31.32	8.49	24.35	3.59*
190.0	191.0	31.34	8.49	24.36	+
200.0	201.0	31.34	8.51	24.36	+
MAX DEPTH	206.3				

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 39.90

DATE 4/12/79

TIME (PST) 1455

TAPE: CZO/80/ 1-076

LONG W126 4.20

PASS NO. 39

STN: 16 - KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
30.3	30.5	30.76	7.80	24.00	65.37*
35.5	35.6	30.78	7.80	24.02	1.65*
40.3	40.5	30.76	7.80	24.01	1.41*
45.4	45.7	30.95	7.83	24.15	2.44*
50.3	50.5	30.99	8.09	24.14	3.59*
60.1	60.4	31.04	8.19	24.17	4.56*
70.2	70.5	31.13	8.25	24.23	3.05*
80.1	80.5	31.15	8.16	24.26	1.69*
90.0	90.5	31.16	8.17	24.27	2.98*
100.0	100.5	31.16	8.12	24.27	1.54*
110.3	110.8	31.20	8.22	24.29	1.97*
120.3	120.8	31.20	8.21	24.29	1.53*
130.2	130.9	31.22	8.23	24.30	1.80*
140.0	140.7	31.24	8.25	24.32	3.09*
150.1	150.8	31.25	8.30	24.31	1.81*
160.1	160.9	31.29	8.40	24.33	2.39*
170.2	171.0	31.29	8.44	24.33	+
180.1	180.9	31.31	8.47	24.34	+
190.3	191.2	31.32	8.48	24.34	+
200.2	201.2	31.33	8.48	24.36	+
MAX DEPTH 206.4					

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 40.60

DATE 4/12/79

TIME (PST) 1525

TAPE: CZ0/80/ 1-077

LONG W125 59.50

PASS NO. 41

STN: 15 - HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.03	7.35	23.50	15.68*
2.1	2.1	30.17	7.36	23.60	14.74*
5.2	5.3	30.53	7.56	23.86	13.33*
10.2	10.2	30.79	7.81	24.03	9.92
15.3	15.4	30.87	7.86	24.08	6.91*
20.1	20.2	30.99	7.93	24.16	6.34
25.0	25.1	31.05	7.96	24.21	8.27
30.0	30.2	31.11	8.00	24.25	5.40
35.2	35.3	31.15	7.99	24.29	5.07
40.3	40.5	31.18	7.96	24.31	3.31*
45.3	45.6	31.19	7.94	24.33	3.23*
50.2	50.4	31.20	7.91	24.33	3.64*
60.2	60.5	31.22	7.84	24.36	2.91*
70.1	70.4	31.25	7.73	24.39	9.04
MAX DEPTH	79.5				

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 40.60

DATE 4/12/79

TIME (PST) 1543

TAPE: CZO/80/ 1-078

LONG W125 57.20

PASS NO. 43

STN: 14 - CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	30.34	7.54	23.71	15.67*
2.3	2.3	30.56	7.64	23.87	13.40*
5.2	5.3	30.52	7.63	23.84	10.00*
10.1	10.1	30.73	7.72	24.00	7.62
15.1	15.2	30.77	7.80	24.02	6.57*
20.1	20.2	30.82	7.84	24.04	3.47*
25.1	25.2	30.83	7.86	24.05	2.86*
30.1	30.2	30.84	7.87	24.06	2.53
35.3	35.4	30.86	7.89	24.07	4.01
40.3	40.5	30.87	7.90	24.08	3.47*
45.2	45.4	30.91	7.94	24.10	3.01*
50.3	50.5	30.92	7.95	24.11	2.59*
60.2	60.5	30.93	7.90	24.12	3.44*
70.2	70.5	30.99	7.95	24.17	5.23*
80.3	80.7	31.10	7.97	24.24	4.11*
90.0	90.5	31.15	7.97	24.28	3.76*
100.2	100.7	31.20	7.91	24.33	3.54*
110.3	110.8	31.24	7.78	24.38	3.89*
120.2	120.8	31.23	7.77	24.38	2.39*
130.3	131.0	31.26	7.66	24.41	2.95*
140.0	140.7	31.26	7.60	24.43	1.63*
150.2	150.9	31.26	7.56	24.43	1.33*
160.2	161.0	31.27	7.56	24.43	1.30*
170.5	171.4	31.28	7.53	24.45	1.30*
180.0	180.9	31.27	7.49	24.45	1.32*
190.2	191.1	31.28	7.48	24.45	3.75
200.1	201.1	31.28	7.46	24.46	+
225.1	226.2	31.28	7.46	24.46	+
250.2	251.4	31.29	7.45	24.47	1.21*
275.5	276.8	31.29	7.45	24.47	1.09*
300.6	302.1	31.29	7.44	24.47	+
325.1	326.7	31.28	7.45	24.46	+
350.1	351.8	31.29	7.44	24.47	+
MAX DEPTH	365.1				



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 40.70

DATE 4/12/79

TIME (PST) 1610

TAPE: CZ0/80/ 1-079

LONG W125 54.40

PASS NO. 45

STN: 12 - ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
45.1	45.3	30.62	7.71	23.91	8.68
50.2	50.4	30.76	7.80	24.00	4.83
60.0	60.3	30.83	7.84	24.06	4.20*
70.3	70.6	30.91	7.92	24.10	3.58*
80.1	80.4	30.95	7.95	24.14	4.43
90.0	90.5	30.97	7.96	24.15	2.24*
100.3	100.8	31.05	7.98	24.21	4.61*
110.2	110.7	31.11	8.00	24.25	2.41*
120.3	120.8	31.13	7.98	24.27	2.60*
130.1	130.8	31.17	7.98	24.30	2.14*
140.0	140.7	31.15	7.99	24.29	1.38*
150.0	150.7	31.19	7.96	24.32	1.98*
160.4	161.1	31.19	7.94	24.32	2.28
170.3	171.1	31.19	7.91	24.32	4.52*
180.1	181.0	31.19	7.92	24.32	+
190.2	191.1	31.20	7.90	24.33	3.05*
200.2	201.2	31.20	7.88	24.34	2.67*
225.1	226.2	31.22	7.80	24.36	2.35
250.1	251.3	31.24	7.67	24.40	1.59*
275.1	276.5	31.25	7.59	24.41	1.26*
300.5	302.0	31.27	7.51	24.44	4.92
325.2	326.8	31.27	7.49	24.44	+
350.1	351.8	31.26	7.47	24.44	+
375.4	377.2	31.28	7.45	24.46	+
400.2	402.2	31.28	7.45	24.46	+
425.1	427.2	31.28	7.45	24.46	+
MAX DEPTH	432.4				

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 41.10

DATE 4/12/79

TIME (PST) 1643

TAPE: CZO/80/ 1-080

LONG W125 51.90

PASS NO. 47

STN: 11 - MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIG 4A-T	B-V
.0	.0	29.64	7.01	23.24	+
2.3	2.3	29.69	7.04	23.27	11.94
5.4	5.4	30.28	7.35	23.69	13.71
10.3	10.3	30.49	7.59	23.83	8.74
15.3	15.4	30.62	7.66	23.92	9.60
20.1	20.2	30.68	7.75	23.95	7.82*
25.2	25.3	30.80	7.89	24.03	4.95*
30.1	30.2	30.80	7.90	24.03	1.91*
35.1	35.3	30.82	7.91	24.03	4.42
40.3	40.5	30.92	7.98	24.11	4.97*
45.6	45.6	30.97	8.01	24.14	4.33
50.1	50.3	30.97	8.02	24.14	5.05
60.6	60.8	30.98	8.02	24.15	1.87*
70.4	70.7	31.01	8.03	24.17	3.39
80.2	80.6	31.03	8.03	24.18	1.56*
90.1	90.6	31.07	8.05	24.21	4.47
100.4	100.9	31.09	8.06	24.22	3.57*
110.0	110.5	31.09	8.08	24.22	1.75*
120.4	120.9	31.10	8.07	24.23	2.74*
130.4	131.1	31.14	8.06	24.27	1.21*
140.2	140.9	31.14	8.06	24.26	2.88*
150.1	150.8	31.14	8.06	24.27	2.52*
160.3	161.1	31.17	8.01	24.30	3.26*
170.2	171.0	31.18	8.00	24.30	4.71*
180.2	181.1	31.18	7.99	24.31	1.64*
190.0	191.0	31.18	7.99	24.30	1.88*
200.3	201.3	31.19	7.91	24.32	2.38*
225.5	226.6	31.21	7.79	24.36	2.32*
250.0	251.2	31.24	7.65	24.40	2.19*
275.3	276.6	31.25	7.57	24.42	1.17*
300.1	301.6	31.27	7.52	24.45	1.98*
MAX DEPTH	323.5				

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 41.60

DATE 4/12/79

TIME (PST) 1706

TAPE: CZ0/80/ 1-081

LONG W125 49.30

PASS NO. 49

STN: 10 - TOM. ISL.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.40	6.72	23.08	6.60
2.1	2.1	29.50	6.84	23.14	3.93*
5.0	5.1	29.33	6.78	23.02	10.06
10.2	10.2	29.99	7.19	23.49	13.52
15.1	15.2	30.37	7.51	23.74	10.91*
20.4	20.4	30.54	7.64	23.85	7.89*
25.2	25.3	30.59	7.67	23.89	5.93*
30.1	30.3	30.69	7.73	23.96	5.11*
35.2	35.3	30.73	7.75	23.99	5.07*
40.2	40.4	30.75	7.81	24.00	4.92
45.1	45.3	30.75	7.82	24.00	4.71*
50.0	50.2	30.80	7.87	24.03	4.52*
60.5	60.8	30.90	7.94	24.10	3.42*
70.5	70.8	30.91	7.94	24.10	2.22
80.3	80.6	30.97	7.96	24.15	4.46*
90.1	90.6	31.02	7.99	24.18	4.12*
100.1	100.6	31.03	7.99	24.19	1.90*
110.2	110.7	31.03	8.00	24.19	5.58*
120.3	120.8	31.08	8.01	24.22	1.95*
130.3	131.0	31.08	8.01	24.23	3.70
140.4	141.1	31.12	8.01	24.26	3.74
150.5	151.2	31.12	8.01	24.26	+
160.3	161.1	31.13	8.01	24.26	1.74*
170.2	171.0	31.15	8.04	24.28	5.43*
180.1	181.0	31.20	7.92	24.33	5.88
190.0	191.0	31.21	7.86	24.35	3.29
200.7	201.6	31.24	7.74	24.39	3.30*
225.4	226.5	31.25	7.64	24.41	+
250.2	251.4	31.27	7.54	24.44	1.39*
275.2	276.5	31.29	7.49	24.46	1.29*
300.5	302.0	31.30	7.44	24.48	+
325.3	326.9	31.30	7.41	24.48	4.60*
MAX DEPTH	331.5				

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 41.70

DATE 4/12/79

TIME (PST) 1729

TAPE: CZ0/80/ 1-082

LONG W125 46.60

PASS NO. 51

STN: 8 - SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	R-V
.0	.0	28.83	6.37	22.68	20.36
2.3	2.3	28.52	6.40	22.43	8.73*
5.0	5.1	30.04	7.16	23.53	22.15
10.1	10.1	30.33	7.42	23.72	23.94
15.0	15.1	30.87	7.87	24.08	11.05*
20.1	20.2	30.91	7.93	24.10	3.01*
25.0	25.1	30.91	7.95	24.10	2.38*
30.1	30.2	30.92	7.96	24.11	3.44
35.1	35.3	30.96	7.98	24.14	4.56*
40.2	40.4	30.96	7.98	24.13	+
45.1	45.3	30.97	7.98	24.14	2.51*
50.3	50.5	30.97	7.98	24.15	2.07
60.2	60.5	30.99	8.00	24.15	3.05*
70.4	70.7	31.02	8.01	24.18	1.64*
80.1	80.5	31.06	8.03	24.21	4.67*
90.0	90.5	31.14	8.02	24.27	3.69*
100.2	100.7	31.14	8.01	24.27	+
110.5	111.0	31.15	7.99	24.29	2.12*
120.4	120.9	31.15	7.99	24.28	+
130.0	130.7	31.18	7.94	24.31	2.48*
140.2	140.9	31.19	7.92	24.33	2.09*
150.3	151.0	31.19	7.90	24.33	1.86*
160.1	160.9	31.20	7.89	24.34	.92*
170.2	171.0	31.22	7.84	24.36	2.71*
180.7	181.6	31.24	7.76	24.38	2.59*
190.3	191.2	31.24	7.70	24.40	6.07
200.3	201.3	31.24	7.68	24.40	1.71*
225.1	226.2	31.27	7.55	24.44	4.07*
250.4	251.6	31.28	7.51	24.45	1.90*
275.2	276.5	31.28	7.49	24.45	3.10
300.1	301.6	31.29	7.41	24.48	+
325.3	327.0	31.30	7.44	24.43	+
350.1	351.8	31.30	7.44	24.48	.80*

MAX DEPTH 364.6

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 41.90

DATE 4/12/79

TIME (PST) 1801

TAPE: CZ0/80/ 1-083

LONG W125 43.50

PASS NO. 53

STN: 7 - SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.42	6.79	23.09	17.83
2.2	2.2	29.15	6.73	22.89	5.68*
5.0	5.1	30.23	6.84	23.72	15.40
10.4	10.4	30.43	7.53	23.78	12.97
15.2	15.3	30.85	7.88	24.07	10.19*
20.1	20.2	30.91	7.94	24.10	4.95*
25.3	25.4	30.95	7.97	24.13	4.46*
30.1	30.3	31.00	7.99	24.16	3.84*
35.3	35.4	31.00	8.00	24.16	2.57*
40.1	40.3	31.01	8.01	24.17	1.67*
45.3	45.5	31.02	8.01	24.18	2.85*
50.1	50.3	31.04	8.03	24.19	3.90
60.2	60.5	31.08	8.03	24.23	4.15*
70.1	70.4	31.11	8.03	24.25	2.04*
80.3	80.7	31.13	8.03	24.26	2.16*
90.2	90.7	31.15	8.00	24.29	4.07*
100.3	100.8	31.16	7.99	24.29	1.19*
110.3	110.8	31.17	7.96	24.30	1.82*
120.1	120.6	31.18	7.85	24.33	4.70
130.1	130.8	31.20	7.71	24.36	2.34*
140.0	140.7	31.21	7.63	24.38	2.27*
150.1	150.8	31.23	7.61	24.40	1.64*
160.1	160.9	31.23	7.59	24.40	2.51*
170.1	170.9	31.24	7.53	24.42	4.02
180.2	181.1	31.26	7.51	24.43	.98*
190.1	191.0	31.26	7.51	24.44	1.28*
200.6	201.6	31.27	7.50	24.44	1.79*
225.6	226.8	31.28	7.46	24.46	1.64*
250.3	251.5	31.29	7.43	24.47	.46*
275.2	276.5	31.29	7.36	24.48	4.02
300.1	301.6	31.30	7.40	24.48	1.88*
325.2	326.9	31.31	7.43	24.49	+
MAX DEPTH	341.6				



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 45.10

DATE 4/12/79

TIME (PST) 1840

TAPE: CZ0/80/ 1-084

LONG W125 41.00

PASS NO. 55

STN: 6 - KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	29.16	6.31	22.94	9.82
2.2	2.3	29.32	6.59	23.03	24.39
5.4	5.4	29.80	6.99	23.36	27.38*
10.2	10.2	30.19	7.37	23.62	13.31
15.1	15.2	30.59	7.78	23.87	8.15
20.3	20.4	30.74	7.90	23.98	6.73
25.2	25.3	30.83	7.95	24.04	7.45
30.1	30.2	30.87	7.97	24.07	4.10*
35.2	35.3	30.89	7.98	24.08	3.35*
40.2	40.4	30.93	8.00	24.11	3.43*
45.1	45.3	30.95	8.02	24.13	3.25*
50.0	50.2	30.98	8.03	24.14	2.60*
60.2	60.5	31.00	8.05	24.16	1.63*
70.2	70.5	31.01	8.04	24.17	1.79*
80.2	80.6	31.04	8.04	24.19	5.27*
90.1	90.6	31.07	8.03	24.22	4.05
100.1	100.6	31.10	8.03	24.24	3.48
110.3	110.8	31.12	7.97	24.26	3.75*
120.4	121.0	31.12	7.83	24.28	2.57*
130.1	130.8	31.14	7.77	24.30	1.90*
140.0	140.7	31.15	7.76	24.32	2.46*
150.3	151.0	31.16	7.66	24.34	2.36*
160.3	161.0	31.16	7.60	24.35	4.79
170.1	171.0	31.17	7.52	24.37	1.71*
180.2	181.1	31.17	7.45	24.38	2.00*
190.2	191.1	31.16	7.38	24.38	1.76*
200.3	201.3	31.18	7.29	24.40	1.76*
225.1	226.2	31.18	7.21	24.42	1.78*
250.3	251.6	31.21	7.15	24.45	.93*
275.1	276.5	31.24	7.20	24.46	1.01*
300.4	301.9	31.28	7.32	24.48	1.67*
325.1	326.8	31.31	7.37	24.49	+
350.0	351.8	31.30	7.39	24.48	+
375.2	377.1	31.31	7.39	24.49	+
400.0	402.0	31.31	7.40	24.49	+
425.2	427.3	31.32	7.41	24.49	+
450.0	452.3	31.32	7.43	24.50	+
475.0	477.4	31.33	7.45	24.50	1.05
500.0	502.5	31.33	7.47	24.50	+

MAX DEPTH 504.2

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO: 79 - 25 KNIGHT INLET  
 LAT N50 47.90  
 DATE 4/12/79  
 TIME (PST) 1922

TAPE: CZO/80/ 1-085  
 LONG W125 37.00  
 PASS NO. 55  
 STN: 5 - KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.96	6.23	22.79	+
2.1	2.1	28.94	6.27	22.77	4.19*
5.2	5.3	28.94	6.26	22.78	10.46
10.1	10.1	29.89	6.99	23.43	22.28
15.0	15.1	30.59	7.78	23.87	10.89
20.3	20.3	30.75	7.93	23.98	5.44
25.2	25.3	30.79	7.94	24.01	4.95*
30.1	30.3	30.82	7.95	24.03	3.51
35.2	35.3	30.86	7.99	24.06	3.98
40.1	40.3	30.92	8.03	24.10	4.16*
45.1	45.3	30.93	8.03	24.11	3.08*
50.5	50.7	30.95	8.02	24.12	3.19*
60.1	60.4	31.00	8.02	24.16	2.96*
70.3	70.6	31.01	7.93	24.18	4.41
80.1	80.5	31.04	7.96	24.20	3.63
90.2	90.6	31.05	7.91	24.22	2.78
100.0	100.5	31.07	7.76	24.25	2.48*
110.3	110.8	31.08	7.66	24.28	.84*
120.1	120.6	31.09	7.64	24.28	2.01*
130.3	131.0	31.08	7.71	24.27	2.00*
140.2	140.9	31.10	7.52	24.31	5.32*
150.2	150.9	31.12	7.49	24.33	4.53
160.1	160.9	31.11	7.40	24.33	2.38*
170.1	171.0	31.13	7.28	24.37	2.47*
180.3	181.2	31.14	7.19	24.39	2.36*
190.2	191.1	31.15	7.15	24.40	3.07
200.2	201.2	31.14	7.10	24.40	1.66*
225.2	226.3	31.17	7.06	24.42	4.45
250.2	251.5	31.20	7.03	24.45	1.13*
275.5	276.9	31.21	7.05	24.46	1.29*
300.0	301.5	31.24	7.19	24.46	1.92*
325.1	326.8	31.30	7.29	24.50	1.41*
350.4	352.2	31.29	7.35	24.48	1.29*
375.0	376.9	31.30	7.40	24.48	+
400.1	402.1	31.31	7.43	24.49	+
425.1	427.3	31.32	7.43	24.50	+
450.0	452.3	31.32	7.45	24.49	+
475.2	477.6	31.34	7.46	24.51	+
MAX DEPTH	496.7				

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 52.40

DATE 4/12/79

TIME (PST) 2012

TAPE: CZ0/80/ 1-086

LONG W125 38.50

PASS NO. 58

STN: 4 - KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.26	6.05	22.27	33.26
2.2	2.2	28.85	6.19	22.71	29.50
5.2	5.3	29.15	6.36	22.93	36.50
10.4	10.4	30.46	7.68	23.79	13.13
15.1	15.2	30.68	7.86	23.93	8.40
20.1	20.2	30.72	7.89	23.96	5.13*
25.0	25.1	30.79	7.92	24.01	4.89*
30.2	30.4	30.81	7.93	24.03	4.41*
35.2	35.3	30.86	7.95	24.06	4.13*
40.1	40.3	30.88	7.94	24.08	4.22*
45.2	45.4	30.92	7.92	24.11	4.08*
50.1	50.3	30.92	7.90	24.12	3.57*
60.2	60.5	30.97	7.93	24.15	3.70*
70.2	70.5	31.02	7.88	24.20	3.08*
80.1	80.4	31.04	7.82	24.22	4.74
90.2	90.6	31.06	7.75	24.25	2.41*
100.3	100.8	31.06	7.62	24.26	2.18*
110.1	110.6	31.03	7.35	24.28	3.52
120.1	120.6	31.05	7.27	24.30	1.52*
130.1	130.8	31.07	7.29	24.32	2.23*
140.0	140.7	31.07	7.21	24.33	2.69*
150.1	150.8	31.09	7.18	24.35	2.19*
160.3	161.0	31.10	7.14	24.36	2.71*
170.1	171.0	31.13	7.09	24.39	2.30*
180.1	181.0	31.13	7.06	24.39	2.52
190.2	191.1	31.15	7.03	24.42	2.53*
200.1	201.1	31.16	6.99	24.43	1.12*
225.2	226.4	31.19	6.98	24.45	.98*
250.4	251.7	31.23	7.11	24.46	1.02*
275.1	276.4	31.26	7.22	24.47	1.53*
300.4	301.9	31.29	7.29	24.49	3.35*
325.0	326.7	31.31	7.38	24.49	+
350.0	351.8	31.31	7.40	24.49	2.09*
375.0	376.9	31.32	7.42	24.49	+
400.2	402.2	31.33	7.42	24.50	.78*
425.3	427.4	31.32	7.44	24.50	+
450.6	452.8	31.33	7.46	24.50	1.42*
475.0	477.4	31.33	7.47	24.50	+
MAX DEPTH 481.8					

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 54.30

DATE 4/12/79

TIME (PST) 2113

TAPE: CZ0/80/ 1-087

LONG W125 32.80

PASS NO. 60

STN: 3 - KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	27.99	5.85	22.08	11.96
2.1	2.1	28.12	5.93	22.16	9.69
5.1	5.2	28.11	5.89	22.17	26.19
10.3	10.3	30.36	7.35	23.75	13.97
15.1	15.2	30.49	7.33	23.86	8.56
20.3	20.4	30.60	7.36	23.94	6.83*
25.1	25.2	30.71	7.42	24.01	5.59*
30.2	30.4	30.71	7.42	24.02	4.50*
35.4	35.5	30.77	7.41	24.06	5.82
40.0	40.2	30.82	7.59	24.08	4.97*
45.1	45.3	30.83	7.52	24.09	3.49*
50.2	50.4	30.83	7.46	24.11	3.36*
60.4	60.7	30.89	7.63	24.13	3.95*
70.1	70.4	30.91	7.55	24.16	3.15*
80.2	80.5	30.90	7.52	24.15	6.05
90.0	90.5	30.96	7.40	24.21	2.91*
100.0	100.5	30.99	7.44	24.23	2.65*
110.3	110.8	30.96	7.12	24.25	4.30
120.2	120.7	31.02	7.11	24.30	3.13*
130.0	130.7	31.02	7.12	24.30	3.22*
140.1	140.8	31.04	7.17	24.31	1.85*
150.3	151.0	31.04	7.08	24.32	3.30*
160.1	160.9	31.08	7.10	24.35	2.88*
170.1	171.0	31.10	7.11	24.37	1.67*
180.2	181.1	31.12	7.11	24.38	2.32*
190.2	191.1	31.12	7.09	24.38	1.78*
200.1	201.1	31.13	7.05	24.40	1.68*
225.2	226.3	31.16	6.95	24.43	1.65*
250.4	251.7	31.19	6.95	24.45	1.21*
275.1	276.4	31.24	7.10	24.47	1.42*
300.3	301.8	31.27	7.24	24.48	1.20*
325.2	326.9	31.29	7.36	24.48	+
350.2	352.0	31.30	7.40	24.48	1.36*
375.3	377.2	31.32	7.43	24.50	+
MAX DEPTH	384.1				



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N50 58.90

DATE 4/12/79

TIME (PST) 2209

TAPE: CZ0/80/ 1-088

LONG W125 33.20

PASS NO. 62

STN: 2 - KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.26	5.89	22.28	28.71
2.1	2.1	27.74	5.80	21.88	8.33*
5.1	5.2	27.73	5.94	21.86	21.81
10.2	10.2	30.17	7.29	23.61	14.91
15.1	15.2	30.37	7.28	23.77	7.91*
20.1	20.2	30.42	7.26	23.81	6.08
25.2	25.3	30.54	7.18	23.91	4.10
30.1	30.2	30.59	7.17	23.96	5.37
35.2	35.3	30.67	7.27	24.01	6.25
40.1	40.3	30.72	7.29	24.04	4.61*
45.1	45.3	30.73	7.24	24.06	3.11*
50.2	50.4	30.74	7.12	24.08	5.43
60.1	60.4	30.83	7.24	24.13	3.98*
70.3	70.6	30.88	7.24	24.17	3.17*
80.1	80.4	30.91	7.31	24.19	2.72*
90.3	90.7	30.92	7.16	24.22	2.79*
100.1	100.6	30.94	7.16	24.23	2.07*
110.1	110.6	30.95	7.10	24.25	3.40
120.1	120.7	30.97	7.11	24.27	2.14*
130.1	130.8	30.99	7.10	24.28	3.26
140.1	140.8	31.01	7.06	24.30	3.13*
150.0	150.7	31.04	7.08	24.33	3.43*
160.4	161.1	31.07	7.10	24.34	2.44*
170.1	170.9	31.09	7.10	24.36	4.42*
180.1	181.0	31.12	7.10	24.38	2.47*
190.3	191.2	31.13	7.08	24.39	3.74
200.3	201.3	31.14	7.03	24.40	3.59
225.3	226.4	31.17	6.96	24.44	2.01*
250.1	251.3	31.19	6.98	24.46	1.05*

MAX DEPTH 269.0



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 79 - 25 KNIGHT INLET

LAT N51 2.30

DATE 4/12/79

TIME (PST) 2247

TAPE: CZ0/80/ 1-089

LONG W125 33.80

PASS NO. 64

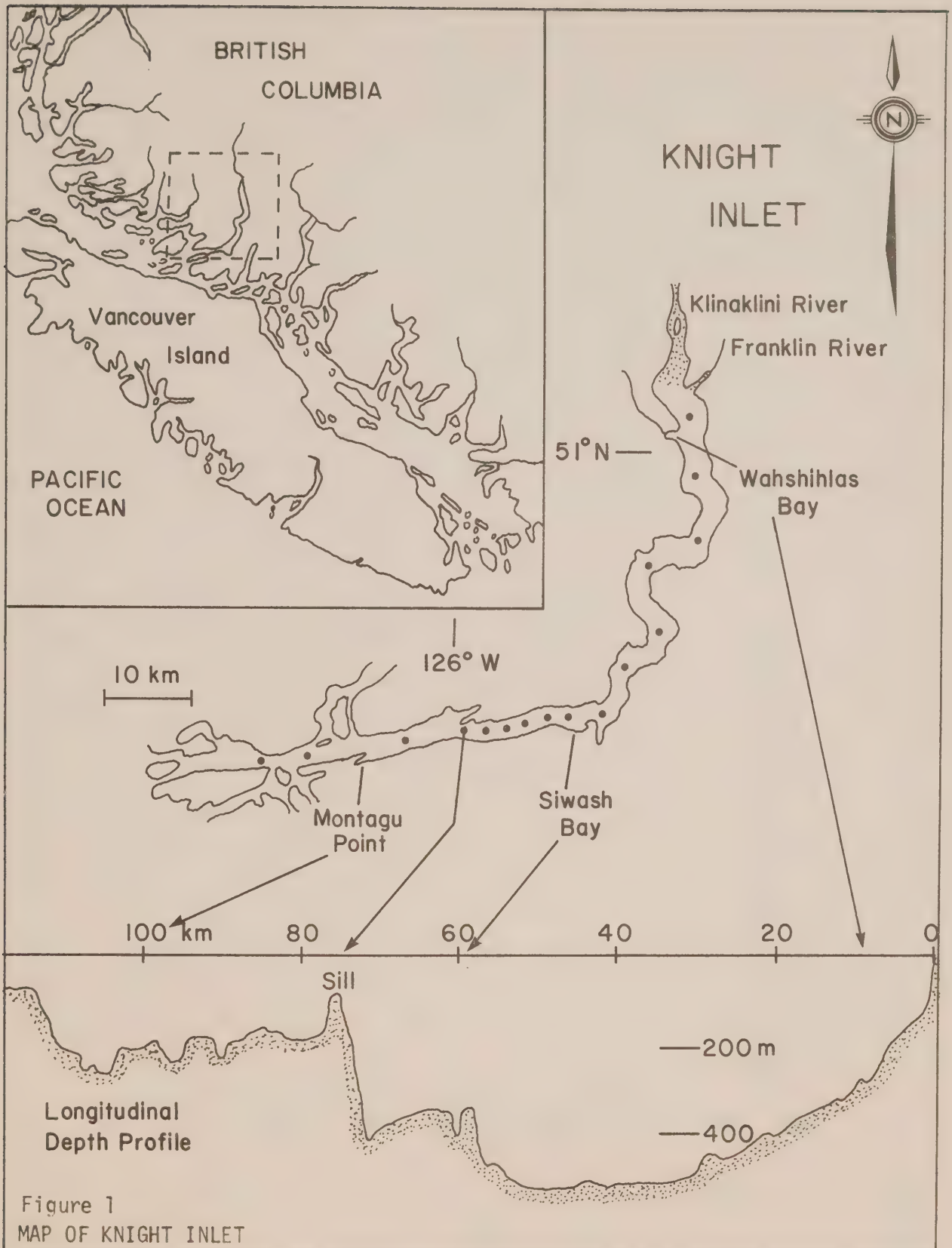
STN: 1 - KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	28.31	6.35	22.27	35.46
2.1	2.1	28.22	6.05	22.23	9.20*
5.1	5.2	28.49	6.31	22.42	23.56
10.1	10.1	30.30	7.30	23.71	11.65
15.0	15.1	30.44	7.19	23.84	8.06
20.1	20.2	30.52	7.14	23.90	6.22
25.1	25.2	30.63	7.09	24.00	8.06
30.1	30.3	30.68	7.11	24.03	3.59*
35.4	35.5	30.70	7.10	24.05	3.80
40.0	40.2	30.69	7.10	24.05	5.75
45.1	45.3	30.76	7.09	24.10	5.74
50.1	50.3	30.78	7.05	24.12	4.89*
60.1	60.4	30.84	7.04	24.17	2.82*
70.1	70.4	30.86	7.07	24.18	2.65*
80.2	80.5	30.88	7.04	24.20	2.78*
90.2	90.7	30.92	7.06	24.23	3.08*
100.0	100.5	30.96	7.06	24.26	2.99*
110.2	110.7	30.99	7.06	24.28	2.69*
120.1	120.7	31.00	7.06	24.29	+
130.1	130.7	31.01	7.06	24.30	4.20*
140.0	140.7	31.02	7.07	24.31	1.93*
150.0	150.7	31.06	7.09	24.33	2.02*
160.3	161.0	31.07	7.07	24.35	3.76
170.2	171.0	31.11	7.09	24.37	3.62
180.4	181.3	31.13	7.05	24.39	.63*
190.0	191.0	31.13	7.04	24.40	1.59*
200.4	201.4	31.14	7.03	24.40	2.63
MAX DEPTH 213.4					



## FIGURES









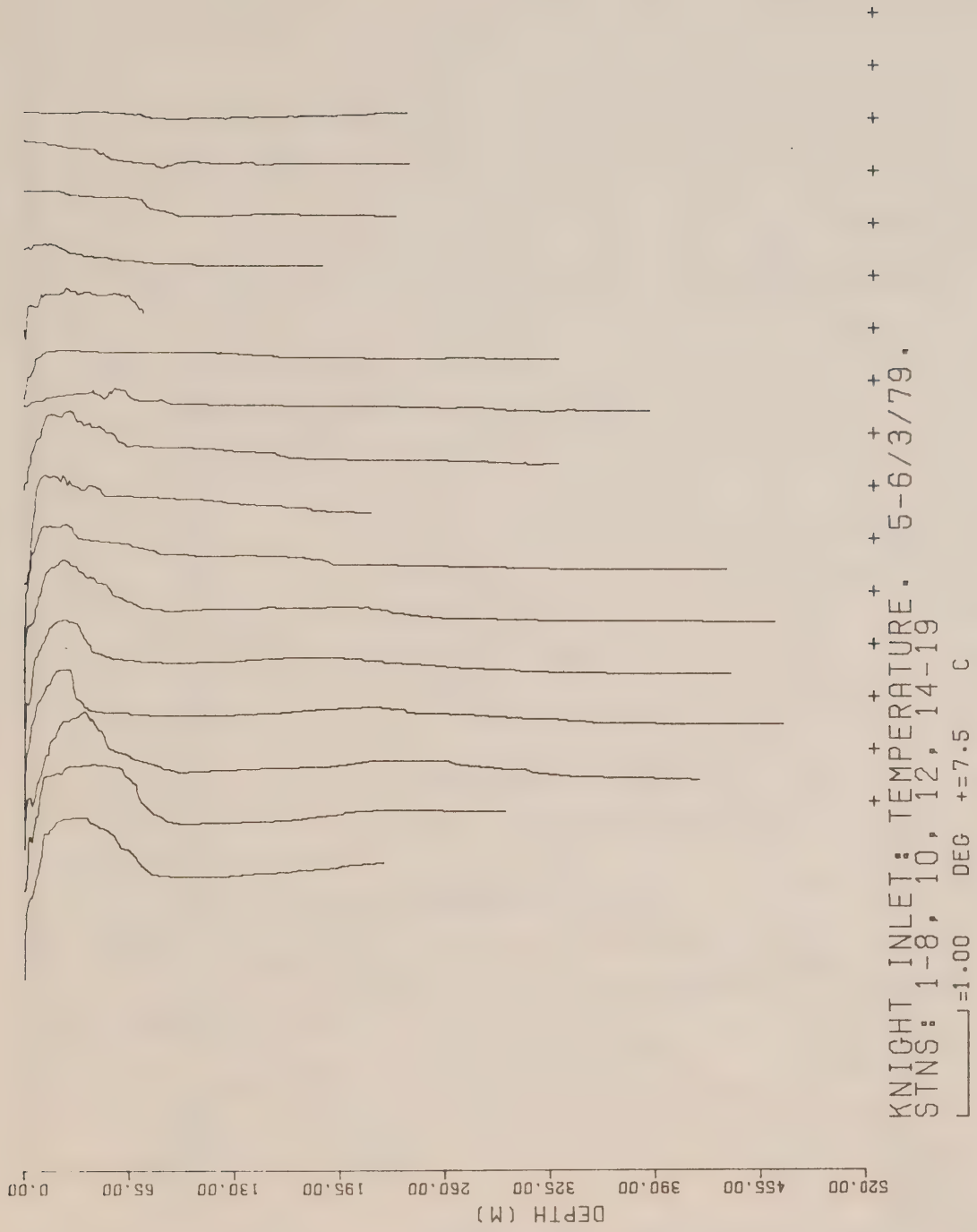


Figure 67

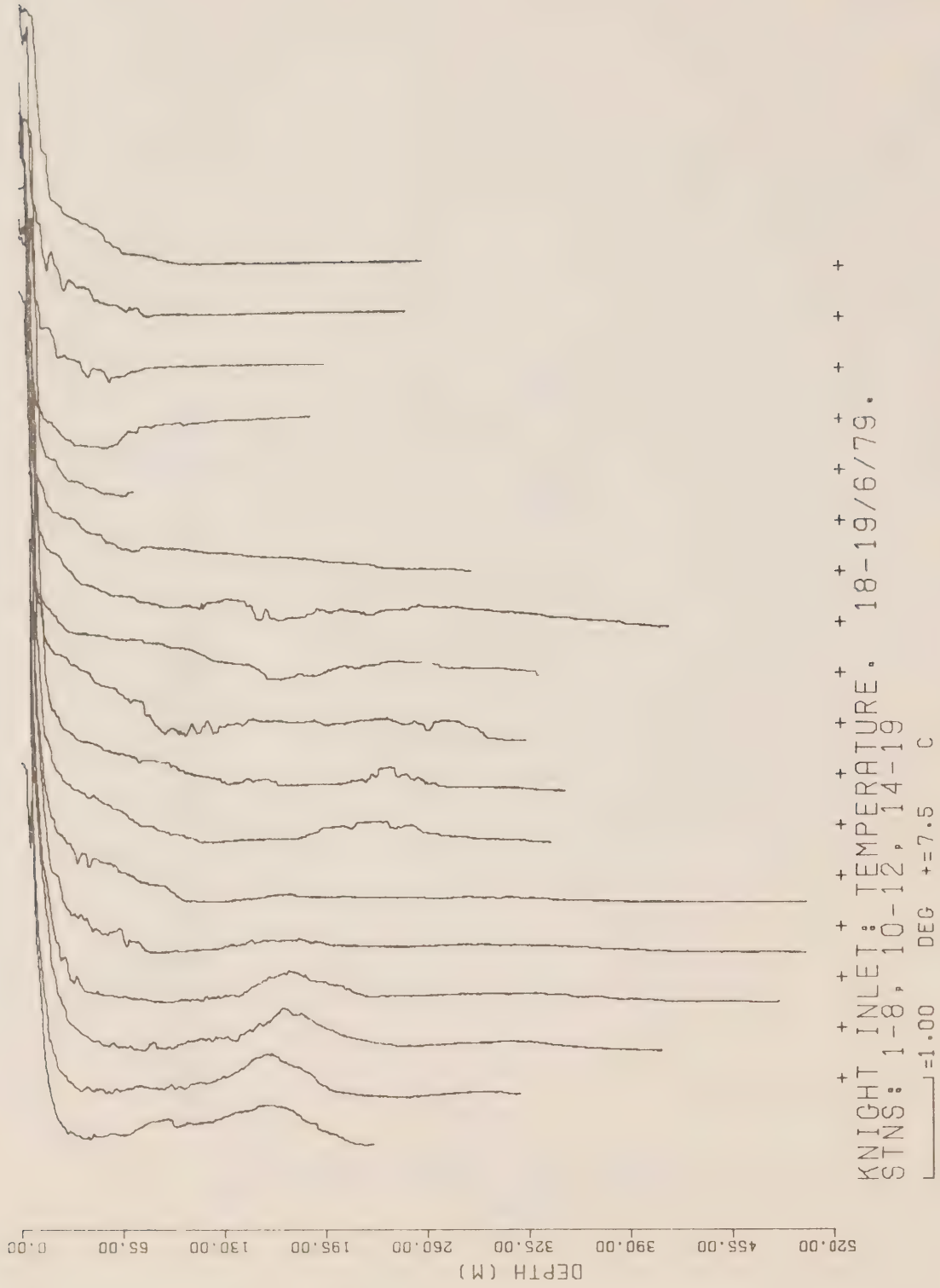


Figure 68

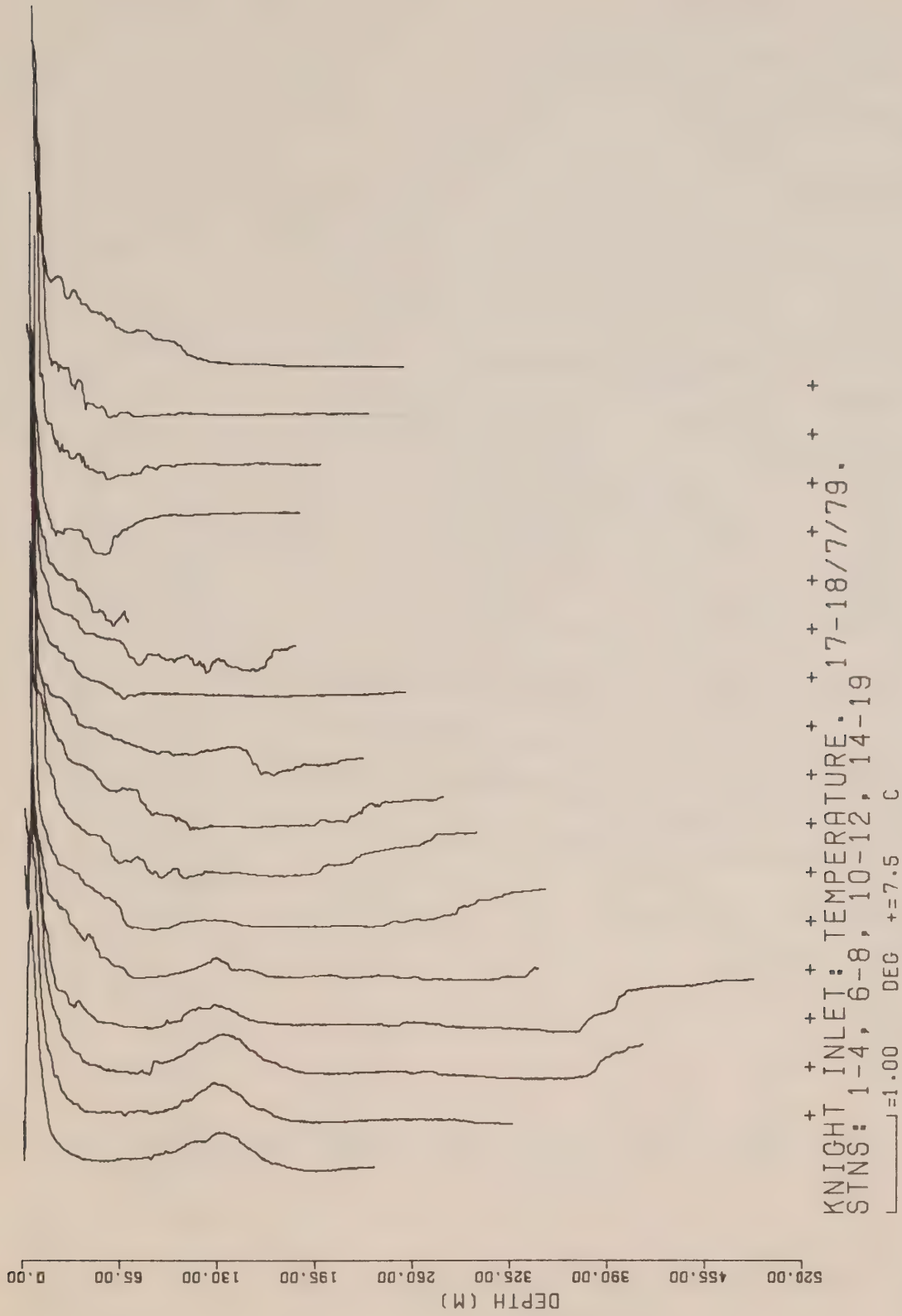


Figure 69

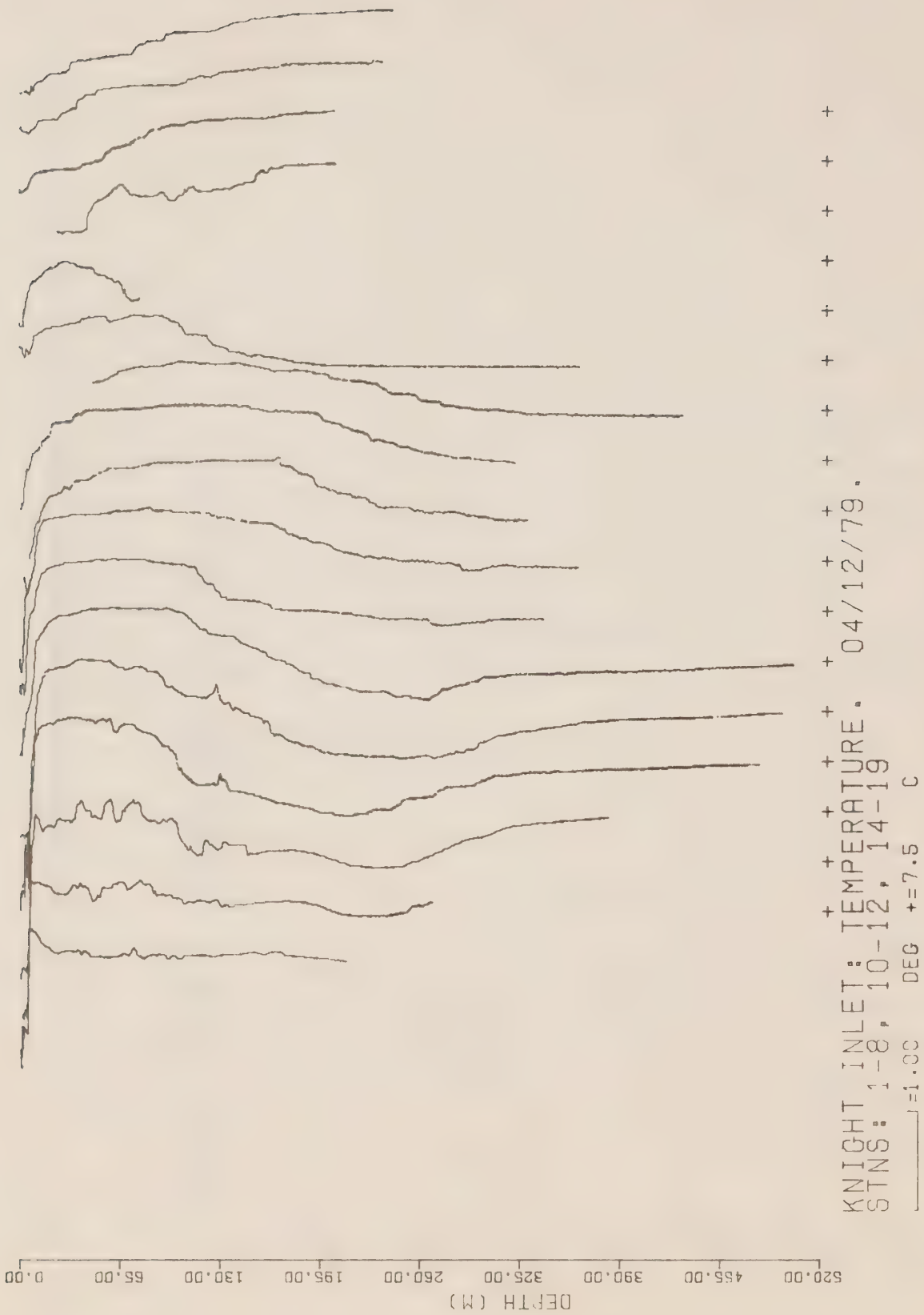


Figure 70



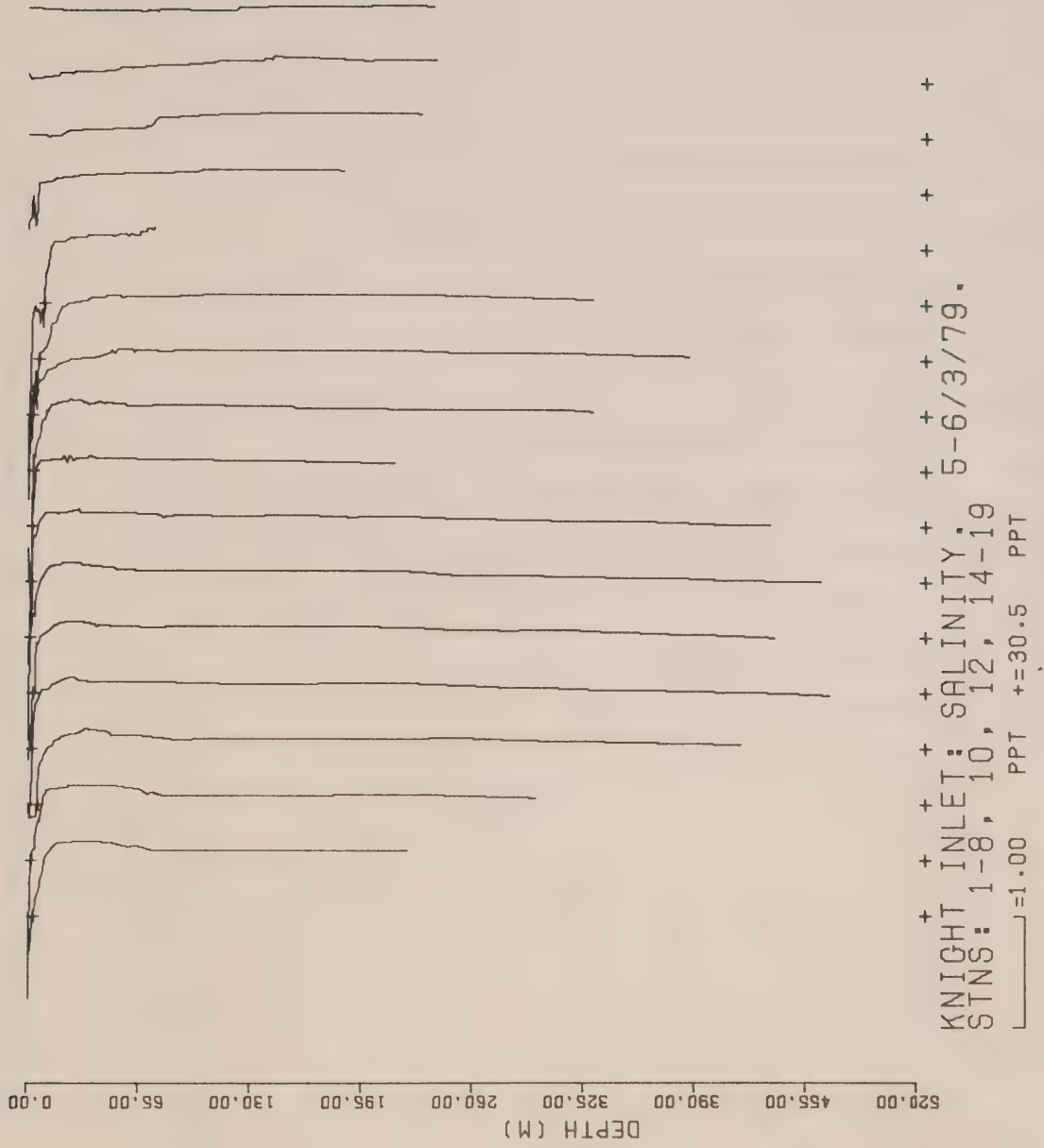


Figure 71

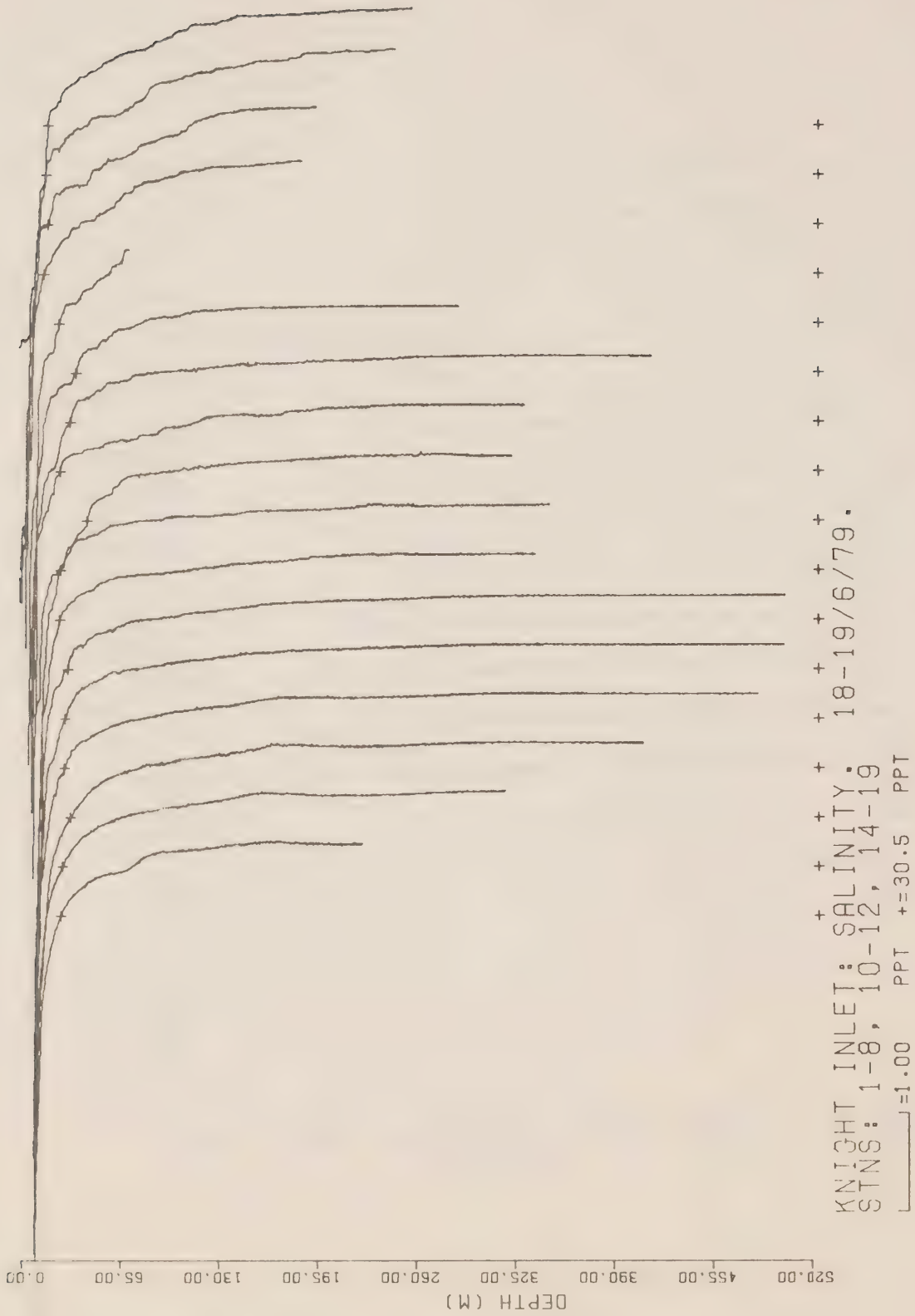


Figure 72

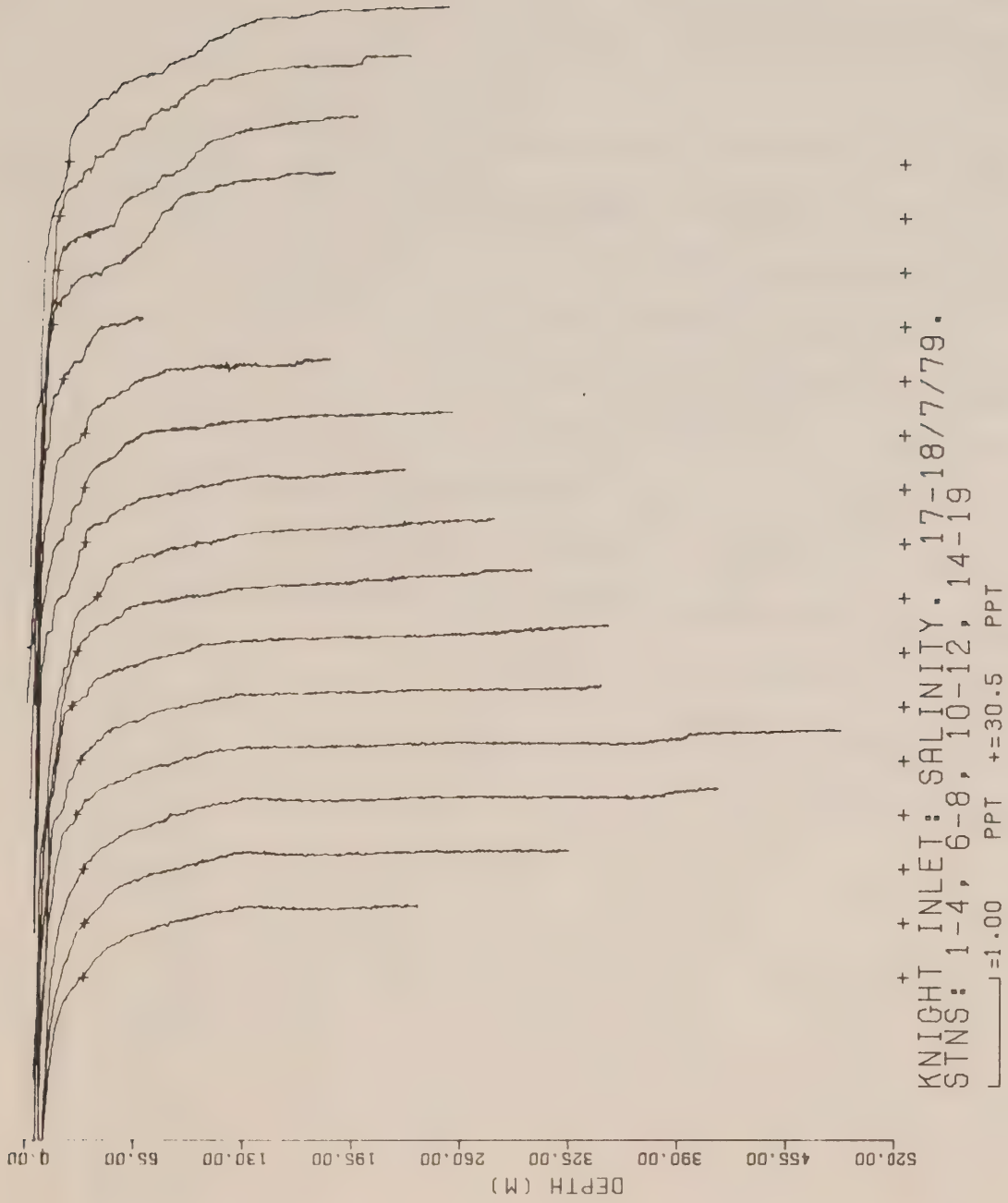


Figure 73

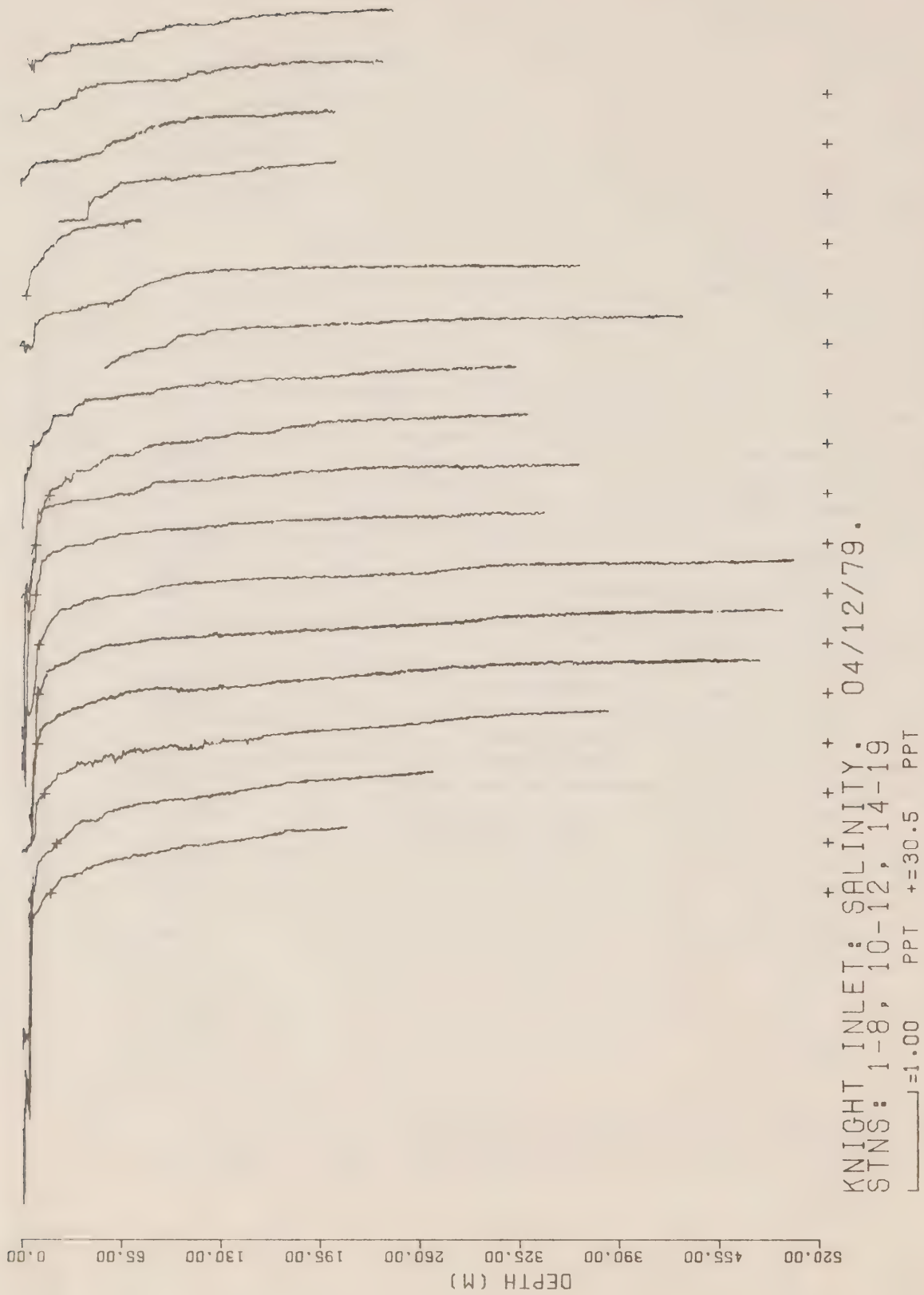


Figure 74

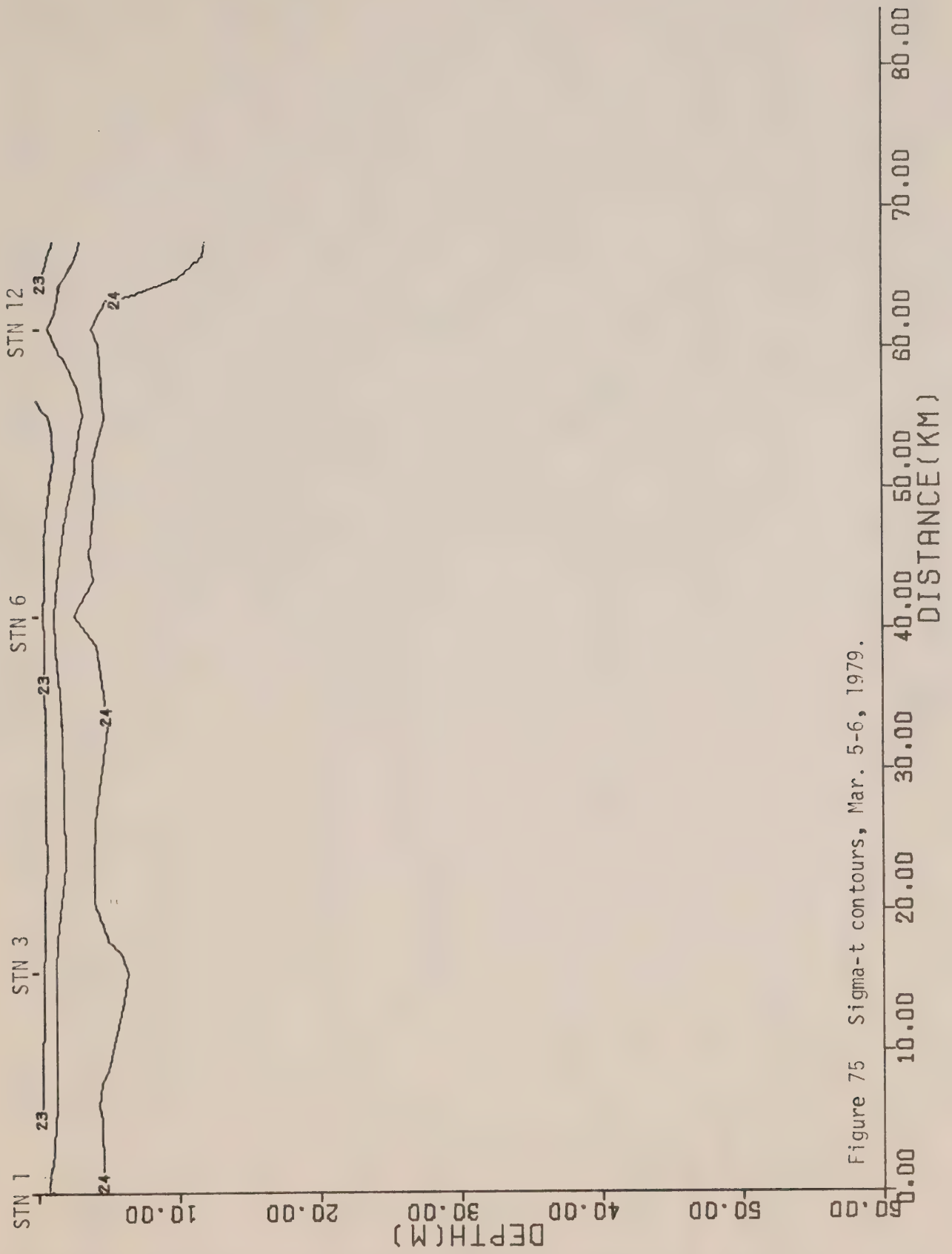


Figure 75 Sigma-t contours, Mar. 5-6, 1979.



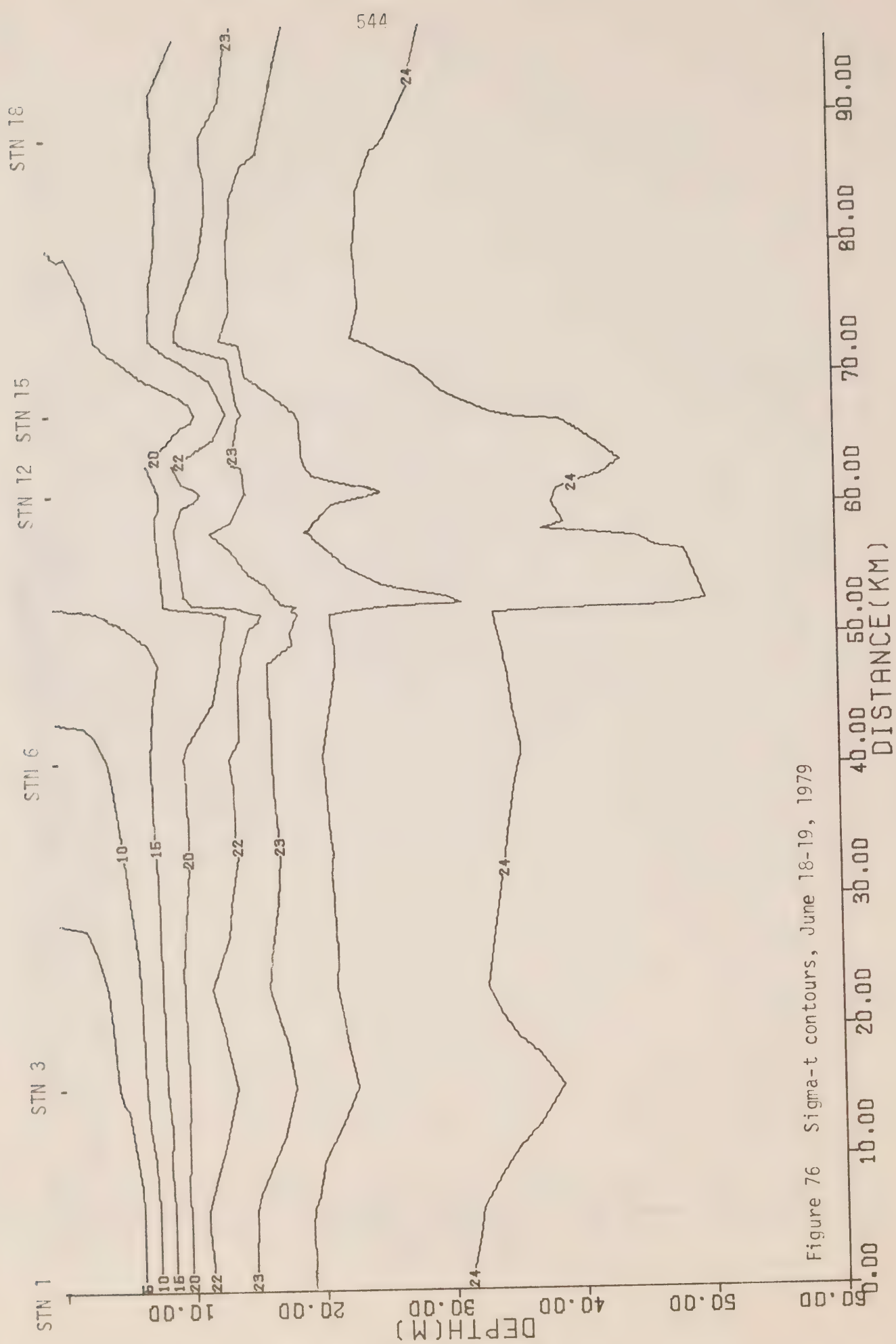


Figure 76 Sigma-t contours, June 18-19, 1979

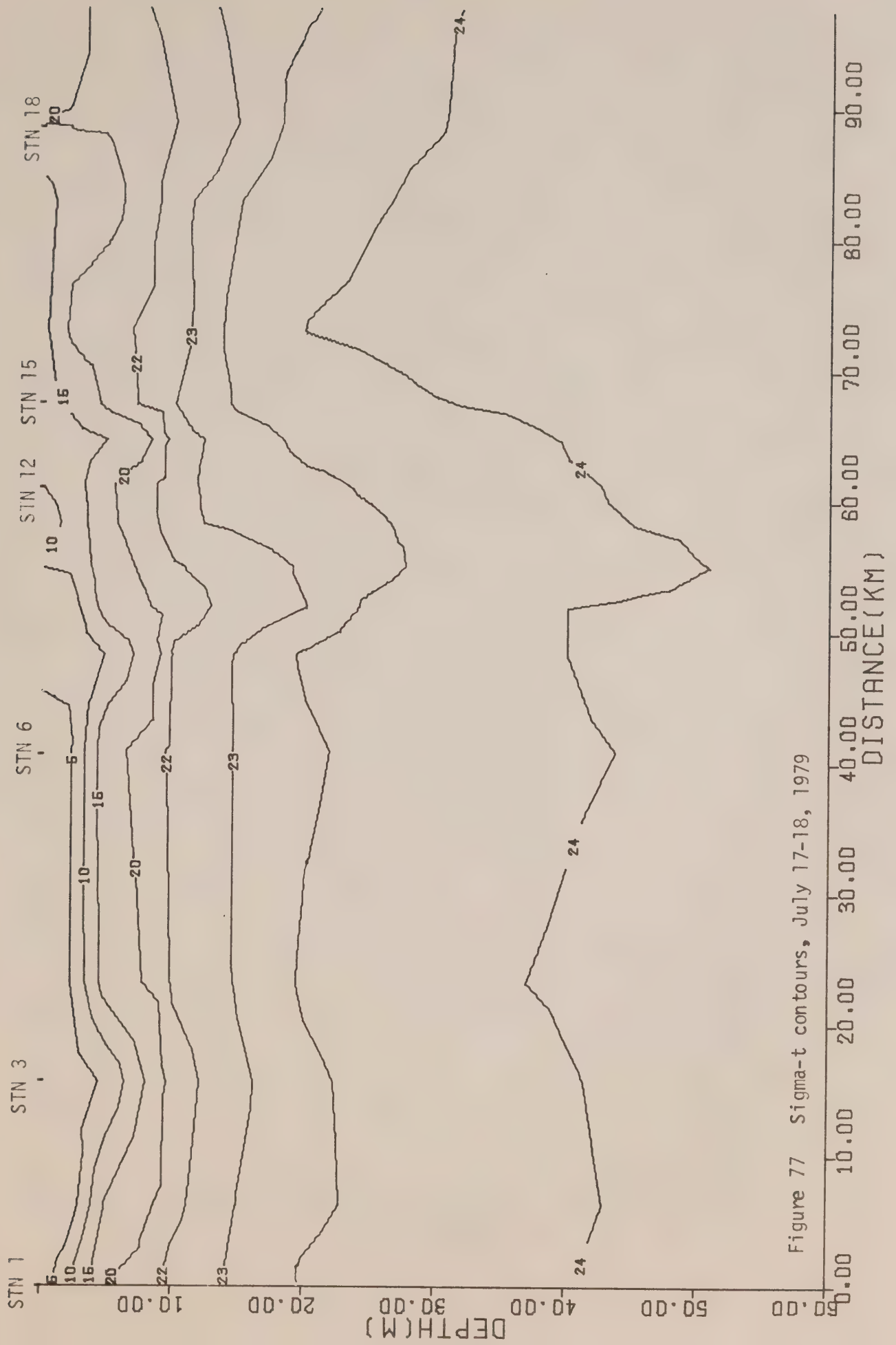


Figure 77 Sigma-t contours, July 17-18, 1979

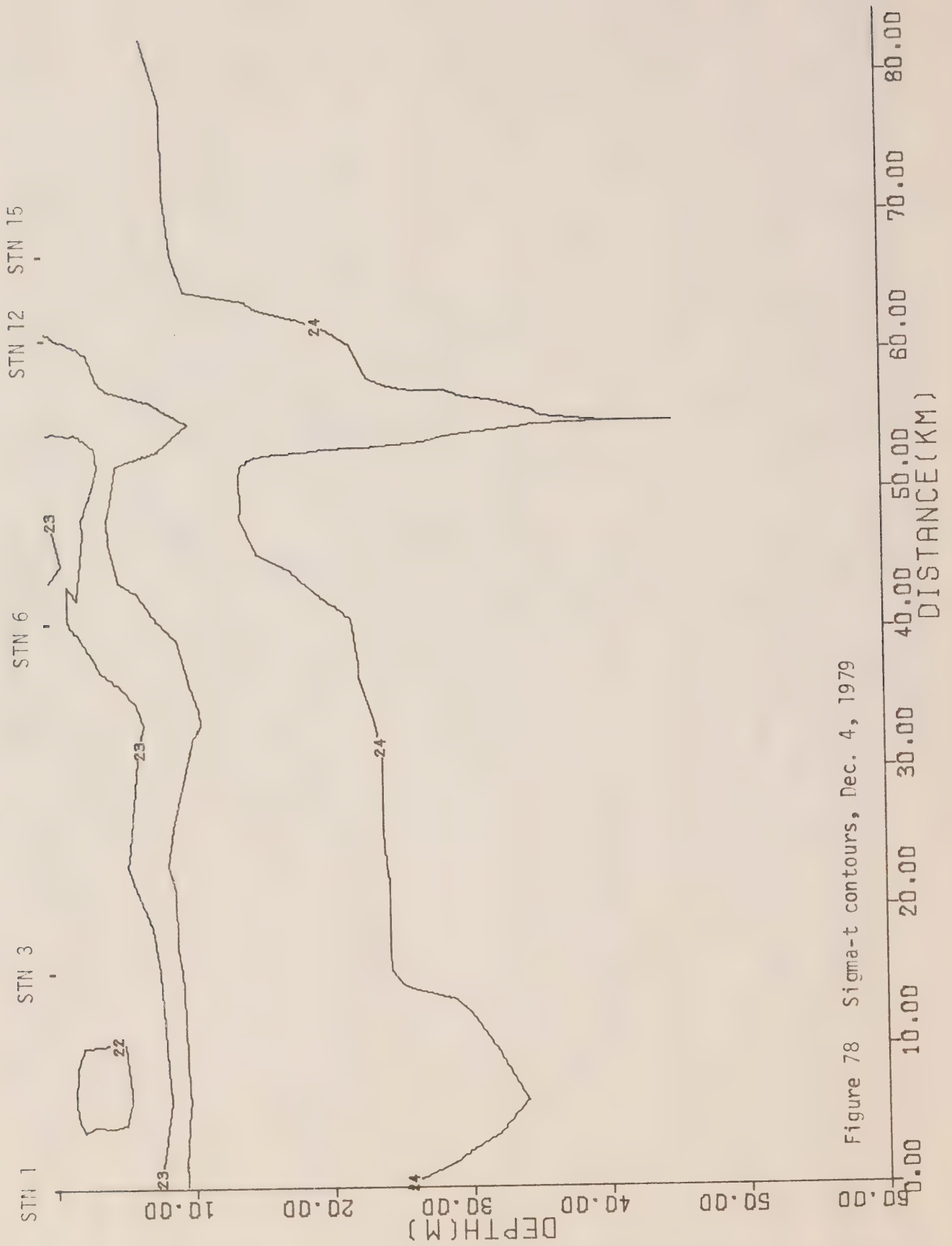


Figure 78 Sigma-t contours, Dec. 4, 1979







CAI  
EP 321  
-79R124

**OCEANOGRAPHIC OBSERVATIONS IN KNIGHT INLET, B.C.**  
**VOLUME IV: Salinity/Temperature Profiles**  
**PART IV: 1980 - 1981**



by  
**Coastal Zone Oceanography Section**

**INSTITUTE OF OCEAN SCIENCES**  
**Sidney, B.C.**



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Institute of Ocean Sciences

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V8L 4B2

OCEANOGRAPHIC OBSERVATIONS IN KNIGHT INLET, B.C.

VOLUME IV: Salinity/Temperature Profiles

PART IV: 1980 - 1981

by

Coastal Zone Oceanography Section

Institute of Ocean Sciences

Sidney, B.C.

1981



ABSTRACT

Salinity/temperature profiles obtained in August, September, November, 1980, July and August, 1981, in Knight Inlet, B.C. are presented in standard depth form and illustrated by plots.





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## INTRODUCTION

This report summarizes data gathered in 1980-1981 using a CTD (conductivity-temperature-depth probe) in Knight Inlet, British Columbia. The CTD study was part of a larger program to study the general physical oceanography of Knight Inlet; summaries of other data collected (tide gauge, current meter, etc.) will be published in subsequent reports.

Raw data from the PRODAS (programmable data acquisition system) was processed on the Univac computer at the Institute of Ocean Sciences, Sidney, B.C. Processing involved the application of appropriate calibration and storage on magnetic tapes for further analysis. All data were stored on 1600, 9-track magnetic tapes. Preceding the calibrated data records is a header which describes the data set. The CTD data described in this report is available on magnetic tapes; details concerning the location of specific files can be obtained from Coastal Zone Oceanography.

For presentation in this report, samples have been taken at discrete intervals and values of pressure, salinity, temperature, sigma-t and Brunt-Väisälä frequency printed for each depth sampled. The Brunt-Väisälä frequency is computed by taking differences over a depth range of 2 metres. If the calculation indicates a local instability, the calculation is repeated with a depth range of 10 metres, and the resulting value is marked with the symbol \*. The units of Brunt-Väisälä frequency are cycles per hour.

## ACKNOWLEDGEMENTS

The work was carried out by the personnel of the Coastal Zone Oceanography. We would like to acknowledge the assistance of the officers and crew of the css *PARIZEAU* and css *VECTOR*.



## KNIGHT INLET CTD STATIONS

<u>CODE NO.</u>	<u>STATION</u>	<u>LATITUDE N</u>	<u>LONGITUDE W</u>
0	KN 12	51° 04.0'	125° 36.0'
1	KN 11	51° 02.3'	125° 33.8'
2	KN 10	50° 58.9'	125° 33.2'
3	KN 9	50° 54.3'	125° 32.8'
4	KN 8	50° 52.4'	125° 38.5'
5	KN 7	50° 47.9'	125° 37.0'
6	KN 6	50° 45.1'	125° 41.0'
7	SALLIE PT.	50° 41.9'	125° 43.5'
8	SIWASH BAY	50° 41.7'	125° 46.6'
9	KN 5	50° 41.6'	125° 47.2'
10	TOMAKSTUM IS.	50° 41.6'	125° 49.3'
11	MT. SAWYER	50° 41.1'	125° 51.9'
12	rough pt.	50° 40.7'	125° 54.4'
13	KN 4	50° 40.8'	125° 56.3'
14	CAMP PEAK	50° 40.6'	125° 57.2'
15	HOEYA HD.	50° 40.6'	125° 59.5'
16	KN 3	50° 39.9'	126° 04.2'
17	MONTAGU PT.	50° 39.2'	126° 12.5'
18	KN 2	50° 38.5'	126° 17.3'
19	KN 1	50° 38.1'	126° 25.2'



CRUISE NO. 81-0 (NO. 26)





## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 51 2.30

DATE 29/ 8/80

TIME (PST) 2137

TAPE: U00975 -017

LONG W 125 33.80

PASS NO. 33

STN: KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
5.1	5.0	.49	5.69	.43	337.58
10.0	10.0	27.13	8.79	21.04	30.01
15.0	15.0	29.25	8.18	22.77	203.01
20.0	20.1	29.83	7.74	23.29	68.45
24.9	25.0	30.22	7.35	23.65	29.88*
29.8	30.0	30.31	7.24	23.73	17.00
34.9	35.0	30.42	7.09	23.83	11.08
39.8	40.0	30.54	6.99	23.94	7.69*
44.8	45.0	30.61	7.01	23.99	8.46*
49.8	50.0	30.66	7.06	24.02	6.67*
59.7	60.0	30.80	7.27	24.11	4.98*
69.6	69.9	30.90	7.33	24.18	5.28*
79.7	80.1	30.94	7.33	24.21	5.02*
89.6	90.1	30.97	7.28	24.24	3.86*
100.5	101.0	30.99	7.27	24.26	3.46*
110.5	111.0	31.01	7.25	24.28	2.45*
120.4	121.0	31.02	7.25	24.29	2.08*
130.3	130.9	31.04	7.24	24.30	2.23*
140.2	140.9	31.05	7.23	24.31	1.73*
150.3	151.0	31.06	7.22	24.32	1.93*
160.2	161.0	31.08	7.23	24.33	1.63*
170.2	171.0	31.09	7.24	24.34	1.53*
180.2	181.0	31.10	7.23	24.35	1.71*
190.1	191.1	31.11	7.23	24.36	1.87*
200.0	201.0	31.12	7.23	24.36	1.64*
224.9	226.0	31.13	7.25	24.37	1.53*
230.8	231.9	31.14	7.26	24.37	.93*

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980  
 LAT N 50 58.90  
 DATE 29/ 8/80  
 TIME (PST) 2049

TAPE: U00975 -016  
 LONG W 125 33.20  
 PASS NO. 31  
 STN: KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.0	2.0	.44	7.45	.31	+
5.1	5.0	.67	6.52	.54	5.39
11.6	11.6	28.45	8.56	22.09	24.58*
15.1	15.1	29.26	8.17	22.78	80.23*
19.8	19.9	29.92	7.70	23.37	48.11
24.8	24.9	30.18	7.45	23.60	15.03*
29.8	29.9	30.34	7.21	23.75	11.62*
34.9	35.0	30.42	7.10	23.83	9.57*
39.9	40.1	30.54	6.97	23.94	7.73*
44.8	45.0	30.62	6.97	24.01	6.72*
49.6	49.8	30.68	7.03	24.04	5.76*
59.7	60.0	30.82	7.32	24.12	5.34*
69.7	70.1	30.91	7.36	24.18	4.44*
79.7	80.1	30.96	7.30	24.23	3.94*
89.5	89.9	30.99	7.28	24.25	3.26*
99.7	100.1	31.00	7.27	24.27	2.42*
110.5	111.0	31.03	7.25	24.29	2.38*
120.4	121.0	31.04	7.24	24.30	2.24*
130.4	131.0	31.06	7.24	24.31	1.75*
140.3	141.0	31.07	7.25	24.33	1.47*
150.2	150.9	31.08	7.29	24.33	1.39*
160.2	161.0	31.08	7.22	24.34	1.45*
170.2	171.0	31.10	7.25	24.34	1.13*
180.1	181.0	31.10	7.23	24.35	1.15*
190.1	191.0	31.11	7.23	24.36	1.58*
200.0	201.0	31.14	7.37	24.37	1.34*
225.0	226.1	31.18	7.47	24.38	1.59*
249.8	251.0	31.20	7.54	24.38	.85*
274.7	276.0	31.20	7.42	24.40	1.13*
299.5	301.0	31.17	7.27	24.40	+
325.1	326.7	31.17	7.24	24.40	+
325.1	326.7	31.17	7.24	24.40	+

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 54.30

DATE 29/ 8/80

TIME (PST) 1956

TAPE: U00975 -015

LONG W 125 32.80

PASS NO. 29

STN: KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.0	2.0	.94	9.54	.57	+
5.0	4.9	2.30	8.43	1.72	6.03
9.9	9.9	27.42	9.02	21.23	79.77
14.9	15.0	29.50	8.10	22.98	75.83
19.9	20.0	29.95	7.75	23.38	24.72*
24.9	25.0	30.19	7.55	23.60	13.44*
29.9	30.0	30.33	7.41	23.72	11.04*
34.9	35.1	30.45	7.18	23.85	8.65*
39.9	40.1	30.56	6.97	23.96	7.85*
44.7	44.9	30.64	6.99	24.02	7.03*
49.8	50.0	30.71	7.10	24.06	5.94*
59.7	60.0	30.85	7.36	24.14	4.98
69.7	70.0	30.91	7.36	24.19	4.83
79.6	80.0	30.95	7.32	24.22	3.78*
89.6	90.1	30.98	7.29	24.25	2.71*
100.5	100.9	31.00	7.27	24.26	2.47*
110.5	111.0	31.01	7.27	24.28	2.11*
120.4	121.0	31.04	7.25	24.30	2.24*
130.3	130.9	31.06	7.27	24.31	3.79*
140.4	141.1	31.06	7.24	24.32	1.57*
150.3	151.0	31.08	7.28	24.32	1.45*
160.2	161.0	31.09	7.29	24.33	1.83*
170.1	170.9	31.10	7.32	24.34	2.04
180.1	181.0	31.12	7.35	24.35	2.53*
190.1	191.0	31.13	7.39	24.35	1.47*
200.0	201.0	31.15	7.52	24.35	1.42*
224.9	226.0	31.20	7.60	24.38	1.98*
249.8	251.0	31.22	7.61	24.39	1.29*
274.7	276.0	31.21	7.49	24.40	1.38*
300.5	301.9	31.23	7.56	24.40	+
325.3	326.9	31.21	7.41	24.41	1.71*
350.2	351.9	31.20	7.35	24.41	.74*
375.1	377.0	31.19	7.29	24.41	+
400.1	402.0	31.18	7.26	24.41	.60*
411.1	413.1	31.18	7.25	24.41	+

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 52.40

DATE 29/ 8/80

TIME (PST) 1855

TAPE: U00975 -014

LONG W 125 38.50

PASS NO. 27

STN: KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.1	2.0	1.26	9.64	.81	+
5.1	5.0	3.74	9.98	2.71	17.78
10.0	10.0	24.09	9.72	18.54	72.26
14.8	14.9	29.33	8.17	22.84	103.17
19.9	20.0	30.04	7.77	23.45	28.77*
24.9	25.0	30.28	7.54	23.66	15.46*
29.9	30.0	30.39	7.35	23.78	12.15*
34.8	34.9	30.51	7.14	23.90	8.92*
39.8	40.0	30.59	7.01	23.98	7.83*
44.9	45.1	30.65	7.02	24.03	6.74*
49.8	50.1	30.69	7.07	24.05	5.59*
59.7	60.0	30.81	7.27	24.11	4.53*
69.7	70.0	30.91	7.34	24.19	4.43*
79.6	79.9	30.95	7.32	24.22	3.98*
89.6	90.0	30.97	7.30	24.24	3.01*
99.6	100.0	31.00	7.28	24.26	2.87*
110.5	111.0	31.01	7.28	24.27	1.95*
120.5	121.0	31.04	7.30	24.29	2.06*
130.3	130.9	31.05	7.31	24.30	2.38*
140.3	141.0	31.06	7.32	24.31	1.62*
150.1	150.9	31.07	7.32	24.31	1.53*
160.0	160.8	31.08	7.34	24.32	.89*
170.3	171.1	31.09	7.35	24.33	1.54*
180.1	181.0	31.10	7.39	24.33	1.14*
190.0	190.9	31.14	7.47	24.35	4.04*
200.0	201.0	31.18	7.58	24.36	2.38*
224.7	225.8	31.21	7.66	24.38	2.19*
249.8	251.0	31.23	7.67	24.39	1.41*
274.7	276.0	31.23	7.68	24.39	.98*
300.5	302.0	31.21	7.46	24.40	1.40*
325.4	327.0	31.21	7.41	24.41	1.00*
350.3	352.0	31.20	7.35	24.41	+
375.2	377.0	31.20	7.37	24.41	+
399.9	401.9	31.24	7.55	24.42	+
424.8	426.9	31.26	7.63	24.42	+
449.8	452.0	31.29	7.80	24.42	+
474.6	477.0	31.33	7.90	24.43	1.16*
484.5	486.9	31.33	7.95	24.43	



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 47.90

DATE 29/ 8/80

TIME (PST) 1800

TAPE: U00975 -013

LONG W 125 37.00

PASS NO. 25

STN: KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.0	1.9	3.61	10.91	2.51	138.53
5.1	5.0	9.48	10.76	7.09	20.91*
10.0	10.1	27.14	8.96	21.02	98.13
15.1	15.1	29.06	8.25	22.61	57.73
19.9	20.0	29.66	7.97	23.13	27.40
24.9	25.0	30.03	7.75	23.44	17.02
29.8	30.0	30.32	7.49	23.71	17.23*
34.8	35.0	30.37	7.45	23.75	9.92*
39.7	39.9	30.48	7.26	23.86	8.64*
44.8	45.0	30.54	7.12	23.92	7.37*
49.8	50.0	30.58	7.05	23.97	6.23*
59.8	60.1	30.71	7.11	24.06	5.21
69.6	69.9	30.86	7.35	24.14	5.43*
80.5	80.8	30.92	7.33	24.20	4.28*
89.6	90.0	30.95	7.32	24.22	3.29*
100.4	100.9	30.97	7.30	24.24	2.81*
110.4	110.9	31.01	7.30	24.27	3.16
120.5	121.0	31.03	7.34	24.28	4.03*
130.3	130.9	31.05	7.32	24.30	2.33*
140.4	141.1	31.08	7.40	24.31	2.30*
150.3	151.0	31.11	7.50	24.32	2.10*
160.2	161.0	31.14	7.63	24.33	1.75*
170.1	171.0	31.15	7.62	24.34	1.32*
180.1	181.0	31.16	7.64	24.34	1.35*
190.0	190.9	31.18	7.70	24.35	1.87*
200.2	201.1	31.20	7.75	24.36	2.00*
224.9	226.0	31.23	7.79	24.37	1.38*
249.8	251.0	31.25	7.81	24.38	1.32*
274.6	276.0	31.26	7.82	24.39	+
299.6	301.0	31.25	7.74	24.40	+
325.4	327.0	31.23	7.56	24.41	1.49*
350.2	351.9	31.23	7.55	24.41	.78*
375.2	377.0	31.28	7.74	24.42	.15*
400.1	402.1	31.33	7.95	24.43	.78*
424.9	427.1	31.34	7.96	24.43	1.29*
449.9	452.1	31.35	7.99	24.44	.87*
474.7	477.0	31.35	7.99	24.44	.57*
499.4	501.9	31.35	7.99	24.44	.71*

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980  
 LAT N 50 45.10  
 DATE 29/ 8/80  
 TIME (PST) 1702

TAPE: U00975 -012  
 LONG W 125 41.00  
 PASS NO. 23  
 STN: KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.2	.2	4.22	11.26	2.95	143.66
2.0	2.0	3.95	11.39	2.72	17.13*
5.0	4.9	6.40	11.23	4.64	101.53
9.9	10.0	27.63	8.52	21.47	59.40
14.9	15.0	29.23	8.11	22.77	24.49*
20.0	20.1	30.12	7.82	23.50	16.69*
24.8	25.0	30.34	7.63	23.70	12.18*
29.8	29.9	30.47	7.59	23.81	7.81*
34.8	35.0	30.52	7.36	23.88	7.08*
39.8	40.0	30.59	7.23	23.95	6.31*
44.7	44.9	30.67	7.15	24.02	4.72*
49.8	50.0	30.68	7.13	24.04	3.27*
59.6	59.9	30.77	7.20	24.09	4.59*
69.7	70.0	30.87	7.34	24.15	4.08*
79.6	80.0	30.90	7.34	24.18	3.42*
89.5	89.9	30.95	7.31	24.22	3.35*
99.5	100.0	30.99	7.32	24.25	2.87*
110.5	111.0	31.02	7.33	24.27	2.52*
120.4	121.0	31.06	7.42	24.29	2.07*
130.3	131.0	31.08	7.44	24.30	1.73*
140.4	141.1	31.10	7.49	24.31	1.60*
150.3	151.0	31.14	7.65	24.32	1.79*
160.3	161.0	31.16	7.71	24.33	1.77*
170.1	170.9	31.20	7.82	24.34	1.64*
180.1	181.0	31.21	7.85	24.35	1.32*
190.0	190.9	31.22	7.88	24.35	1.43*
200.0	201.0	31.23	7.89	24.36	1.14*
224.9	226.0	31.25	7.92	24.38	1.27*
249.9	251.1	31.26	7.91	24.38	1.74
274.7	276.1	31.27	7.89	24.39	.90*
299.5	301.0	31.27	7.87	24.40	.95*
325.3	326.9	31.27	7.79	24.40	.89*
350.1	351.9	31.29	7.84	24.41	+
375.1	377.0	31.30	7.87	24.42	.37*
400.1	402.1	31.31	7.89	24.43	1.06*
424.9	427.1	31.33	7.94	24.43	.39*
449.8	452.1	31.34	7.97	24.43	1.29*
474.7	477.0	31.35	7.99	24.44	.54*
500.5	503.0	31.36	8.02	24.44	
501.1	503.6	31.36	8.02	24.44	

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 41.90

DATE 29/ 8/80

TIME (PST) 1612

TAPE: U00975 -011

LONG W 125 43.50

PASS NO. 21

STN: SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.4	.4	8.62	11.01	6.39	28.73
1.9	1.9	10.32	10.90	7.72	27.49
5.1	5.0	16.30	10.22	12.44	66.77
10.0	10.1	28.39	8.33	22.08	48.26
15.0	15.0	30.02	7.94	23.40	27.56*
19.9	19.9	30.27	7.92	23.61	10.63*
24.8	25.0	30.39	7.86	23.71	10.51*
29.8	30.0	30.61	7.67	23.91	10.28*
34.8	35.0	30.70	7.39	24.02	7.05*
39.8	40.0	30.72	7.31	24.04	3.95*
44.8	45.0	30.74	7.27	24.06	3.55*
49.7	50.0	30.73	7.27	24.06	3.18*
59.7	60.0	30.83	7.28	24.13	3.24*
69.8	70.1	30.90	7.32	24.18	4.34*
79.6	80.0	30.94	7.34	24.21	3.31*
89.5	90.0	30.98	7.37	24.24	3.72*
100.5	101.0	31.05	7.45	24.28	2.90*
109.5	110.0	31.07	7.54	24.29	1.55*
120.4	121.0	31.13	7.66	24.31	1.38*
130.3	130.9	31.13	7.73	24.31	.89*
140.3	140.9	31.16	7.77	24.33	1.55*
150.3	151.0	31.18	7.79	24.33	.71*
160.2	161.0	31.20	7.84	24.34	1.81*
170.1	171.0	31.21	7.86	24.35	1.67*
180.1	181.0	31.22	7.88	24.36	1.06*
190.1	191.0	31.23	7.89	24.36	.68*
200.0	200.9	31.23	7.90	24.36	.75*
225.0	226.1	31.24	7.90	24.37	1.52*
249.7	250.9	31.26	7.91	24.38	.45*
274.7	276.0	31.26	7.96	24.38	1.25*
300.5	302.0	31.30	7.99	24.40	+
325.4	327.0	31.33	8.00	24.42	1.10*
350.3	352.0	31.35	8.00	24.43	1.49*
375.2	377.1	31.37	8.01	24.45	.71*
400.0	402.0	31.37	8.01	24.46	+
424.9	427.0	31.36	8.01	24.45	+
441.7	443.9	31.36	8.01	24.45	+

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980  
 LAT N 50 41.70  
 DATE 29/ 8/80  
 TIME (PST) 1542

TAPE: U00975 -010  
 LONG W 125 46.60  
 PASS NO. 19  
 STN: SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
5.1	5.0	12.11	10.86	9.11	158.99
10.1	10.1	25.45	8.98	19.70	21.79
15.0	15.0	29.13	8.19	22.67	106.03
19.9	20.0	29.85	8.02	23.26	57.80
25.0	25.1	30.27	7.90	23.61	34.89*
29.8	29.9	30.44	7.84	23.75	18.17*
34.9	35.1	30.60	7.71	23.89	13.39*
39.9	40.1	30.64	7.63	23.94	8.67*
44.8	45.0	30.69	7.48	23.99	7.08*
49.8	50.0	30.72	7.40	24.03	5.55*
59.8	60.1	30.88	7.32	24.16	5.40*
69.7	70.0	30.92	7.38	24.18	5.45
79.6	80.0	30.99	7.48	24.23	6.07
89.5	90.0	31.03	7.53	24.25	2.87*
99.6	100.0	31.06	7.57	24.27	4.22*
110.5	111.0	31.10	7.64	24.29	3.19*
120.4	121.0	31.12	7.66	24.31	2.42*
130.3	130.9	31.13	7.70	24.31	1.28*
140.2	140.9	31.16	7.77	24.33	1.84*
150.3	151.0	31.18	7.80	24.33	1.91*
160.2	160.9	31.20	7.84	24.34	1.40*
170.2	171.1	31.22	7.89	24.35	1.26*
180.1	181.0	31.24	7.92	24.36	1.80*
190.1	191.0	31.24	7.93	24.37	2.14*
200.0	201.0	31.24	7.94	24.37	1.53*
224.9	226.0	31.27	7.96	24.38	.63*
249.7	250.9	31.31	7.98	24.41	.45*
274.6	276.0	31.32	7.98	24.42	1.70*
299.5	301.0	31.34	7.98	24.43	1.50*
325.4	327.0	31.36	7.99	24.45	.61*
350.3	352.1	31.40	8.00	24.48	2.26*
375.1	377.0	31.41	8.01	24.48	1.49*
378.6	380.5	31.40	8.01	24.48	1.20*



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 41.60

DATE 29/ 8/80

TIME (PST) 1513

TAPE: U00975 -009

LONG W 125 49.30

PASS NO. 17

STN: TOM. ISL.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
5.0	5.0	9.71	11.48	7.17	186.82
10.1	10.1	24.99	9.10	19.33	19.15
15.0	15.1	28.68	8.30	22.31	122.03
19.9	20.0	29.96	8.02	23.35	57.24
25.0	25.1	30.27	7.94	23.60	37.03
29.9	30.0	30.44	7.89	23.75	16.39
34.9	35.1	30.48	7.84	23.78	9.14
39.9	40.0	30.57	7.72	23.87	5.22*
44.9	45.1	30.65	7.69	23.94	6.63*
49.8	50.0	30.72	7.63	24.00	6.59*
59.8	60.0	30.81	7.47	24.09	6.52*
69.7	70.0	30.91	7.35	24.18	5.93*
79.6	80.0	30.97	7.38	24.23	5.23*
89.6	90.0	31.01	7.44	24.25	4.47*
100.5	101.0	31.05	7.49	24.28	3.41*
109.5	110.1	31.09	7.64	24.29	3.01*
119.6	120.2	31.11	7.65	24.30	2.63*
130.3	130.9	31.15	7.77	24.31	1.89*
140.4	141.0	31.19	7.84	24.33	1.50*
150.3	151.0	31.21	7.88	24.34	2.16*
160.2	160.9	31.21	7.89	24.35	1.83*
170.2	171.0	31.22	7.89	24.35	1.39*
180.1	180.9	31.22	7.91	24.35	1.08*
190.1	191.0	31.23	7.93	24.36	.97*
200.1	201.1	31.24	7.94	24.36	1.25*
225.0	226.1	31.28	7.97	24.39	1.26*
249.8	251.0	31.30	7.95	24.40	1.72*
274.7	276.1	31.32	7.96	24.42	1.10*
299.5	301.0	31.37	7.98	24.45	1.28*
325.3	327.0	31.39	8.00	24.47	1.57*
335.2	336.9	31.43	8.01	24.50	1.57*



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 41.10

DATE 29/ 8/80

TIME (PST) 1443

TAPE: U00975 -008

LONG W 125 51.90

PASS NO. 15

STN: MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
10.1	10.1	24.83	9.24	19.18	100.56
14.9	14.9	29.38	8.20	22.87	5.81
19.9	20.0	29.71	8.11	23.15	80.32
24.9	25.0	29.99	8.04	23.37	43.58
29.9	30.0	30.28	7.96	23.61	39.83
34.8	35.0	30.43	7.92	23.73	8.85*
39.8	39.9	30.54	7.76	23.84	12.69*
44.8	45.0	30.60	7.63	23.90	10.67*
49.7	50.0	30.65	7.64	23.94	8.67*
59.7	60.0	30.75	7.75	24.01	7.11*
69.7	70.1	30.88	7.62	24.12	5.60*
79.6	79.9	30.90	7.64	24.14	5.17*
89.7	90.1	30.93	7.51	24.18	5.59*
99.5	100.0	30.94	7.43	24.20	3.73*
110.4	111.0	31.01	7.50	24.24	2.45*
120.4	121.0	31.07	7.63	24.27	2.46*
130.4	131.0	31.10	7.67	24.29	2.88*
140.3	141.0	31.14	7.76	24.31	3.46*
150.3	151.0	31.17	7.83	24.32	2.75*
160.2	161.0	31.19	7.86	24.33	2.28*
170.1	170.9	31.20	7.89	24.34	2.35*
180.2	181.0	31.22	7.93	24.35	1.80*
190.2	191.1	31.23	7.93	24.36	1.07*
200.1	201.1	31.23	7.92	24.36	1.19*
224.9	226.0	31.25	7.93	24.37	1.32*
249.8	251.0	31.26	7.94	24.38	+
274.7	276.0	31.27	7.94	24.38	+
299.6	301.1	31.29	7.95	24.40	1.16*
325.4	327.0	31.30	7.96	24.40	.93*
350.3	352.0	31.36	7.98	24.45	1.09*
365.9	367.7	31.43	8.01	24.50	1.06*

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 40.70

DATE 29/ 8/80

TIME (PST) 1406

TAPE: U00975 -007

LONG W 125 54.40

PASS NO. 13

STN: ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
1.9	1.9	8.13	11.54	5.94	115.20
5.0	4.9	15.21	10.77	11.52	19.29*
10.1	10.1	27.88	8.55	21.65	87.62
15.1	15.1	29.68	8.10	23.12	60.04
19.9	20.0	30.07	7.99	23.44	24.01
25.0	25.1	30.51	7.90	23.80	12.15*
29.9	30.1	30.65	7.86	23.91	11.59*
34.9	35.0	30.68	7.87	23.94	7.41*
39.9	40.0	30.68	7.85	23.94	3.36*
44.7	44.9	30.69	7.83	23.94	3.05*
49.8	50.0	30.70	7.80	23.96	2.82*
59.7	60.0	30.78	7.60	24.05	4.10*
69.6	69.9	30.83	7.59	24.09	4.51*
79.6	80.0	30.82	7.50	24.10	3.03*
89.7	90.1	30.91	7.51	24.16	3.48*
99.6	100.1	30.95	7.47	24.20	4.03*
109.5	110.1	31.02	7.73	24.22	3.17*
119.5	120.1	31.03	7.75	24.23	1.80*
130.4	131.0	31.09	7.80	24.26	2.17*
140.2	140.9	31.11	7.83	24.28	2.73*
150.3	151.0	31.14	7.85	24.29	2.28*
160.2	161.0	31.16	7.86	24.31	2.16*
170.2	171.0	31.15	7.86	24.31	1.79*
180.2	181.0	31.17	7.87	24.31	.65*
190.1	191.0	31.18	7.88	24.32	.85*
200.1	201.1	31.18	7.88	24.32	1.08*
224.9	225.9	31.20	7.90	24.34	.77*
249.8	251.0	31.24	7.92	24.36	1.94*
274.6	276.0	31.26	7.93	24.38	1.77*
299.6	301.1	31.32	7.95	24.42	1.97*
325.4	327.0	31.38	7.98	24.46	2.17*
350.3	352.0	31.41	7.99	24.48	.95*
375.2	377.1	31.42	8.00	24.50	1.53*
375.2	377.1	31.42	8.00	24.50	

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 40.60

DATE 29/ 8/80

TIME (PST) 1337

TAPE: U00975 -006

LONG W 125 57.20

PASS NO. 11

STN: CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.0	2.0	8.34	11.47	6.11	82.16*
4.9	4.9	15.88	10.76	12.04	29.33
10.0	10.0	28.19	8.50	21.90	73.30*
15.0	15.0	28.99	8.29	22.55	61.65*
19.9	20.0	29.74	8.10	23.17	38.62*
24.9	25.0	29.87	8.07	23.28	16.02*
29.9	30.0	29.96	8.06	23.34	14.55*
34.9	35.0	30.45	7.91	23.75	13.02*
39.8	40.0	30.50	7.90	23.79	8.73*
44.8	45.0	30.56	7.89	23.84	4.68*
49.8	50.0	30.72	7.86	23.96	6.44*
59.6	59.9	30.83	7.75	24.07	8.05*
69.7	70.0	30.89	7.81	24.11	5.71*
79.6	80.0	31.00	7.78	24.19	5.79*
89.6	90.0	31.03	7.73	24.23	4.72*
100.5	100.9	31.04	7.68	24.25	3.54*
110.4	110.9	31.04	7.59	24.26	4.04
120.4	121.0	31.05	7.58	24.26	1.67*
130.4	131.0	31.05	7.58	24.26	.83*
140.3	140.9	31.11	7.69	24.29	2.34*
150.1	150.9	31.14	7.77	24.31	2.07*
160.2	161.0	31.17	7.84	24.32	2.79*
170.1	170.9	31.19	7.86	24.33	1.75*
180.0	180.9	31.20	7.89	24.34	1.33*
190.1	191.1	31.21	7.91	24.34	1.23*
200.1	201.0	31.23	7.94	24.35	1.32*
224.9	226.0	31.25	7.94	24.37	1.58*
249.8	251.0	31.26	7.94	24.38	.81*
274.7	276.0	31.28	7.95	24.39	1.34*
299.6	301.1	31.33	7.97	24.43	1.62*
325.4	327.0	31.46	8.01	24.52	4.20*
350.2	352.0	31.46	8.01	24.52	+
365.9	367.8	31.46	8.01	24.52	+

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 40.60

DATE 29/ 8/80

TIME (PST) 1318

TAPE: U00975 -005

LONG W 125 59.50

PASS NO. 9

STN: HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
5.1	5.0	15.87	10.97	12.00	+
10.0	10.0	28.94	8.33	22.51	6.61
15.0	15.1	29.70	8.13	23.13	+
19.9	20.0	30.67	7.95	23.92	109.14*
25.0	25.1	30.82	7.83	24.05	21.50*
29.9	30.1	30.99	7.77	24.19	14.60*
34.8	35.0	31.22	7.92	24.35	7.80*
39.9	40.1	31.31	7.92	24.42	8.12*
44.8	45.0	31.56	8.04	24.60	8.45*
49.7	50.0	31.70	8.12	24.69	9.15*
59.7	60.0	32.00	8.15	24.93	9.79*
67.5	67.8	32.02	8.15	24.94	9.43*

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980  
 LAT N 50 39.90  
 DATE 29/ 8/80  
 TIME (PST) 1255

TAPE: U00975 -004  
 LONG W 126 4.20  
 PASS NO. 7  
 STN: KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
5.0	5.0	22.83	9.80	17.55	196.58
10.0	10.0	27.98	8.65	21.71	15.55
14.9	15.0	29.67	8.37	23.08	112.53
19.9	20.0	30.15	8.14	23.48	28.48
25.0	25.1	30.60	7.85	23.87	17.98*
29.8	30.0	30.70	7.80	23.96	15.72*
34.9	35.1	30.80	7.75	24.04	11.59*
39.9	40.1	30.94	7.78	24.15	7.52*
44.7	45.0	31.03	7.79	24.22	7.86*
49.8	50.0	31.10	7.82	24.26	8.10*
59.8	60.0	31.13	7.83	24.29	6.49*
69.6	70.0	31.20	7.87	24.34	4.87*
79.6	80.0	31.30	7.92	24.41	.74*
89.5	90.0	31.57	8.10	24.60	5.50*
99.6	100.1	31.70	8.11	24.70	5.93*
110.4	111.0	31.81	8.12	24.78	6.23*
120.4	121.1	31.96	8.12	24.90	5.06*
130.3	131.0	32.00	8.14	24.93	9.17
140.2	141.0	32.01	8.14	24.94	8.18
150.2	151.0	32.01	8.13	24.94	2.51*
160.0	160.9	32.03	8.14	24.95	1.64*
170.1	171.0	32.07	8.16	24.98	1.66*
174.7	175.7	32.09	8.16	24.99	2.48*



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 39.20

DATE 29/ 8/80

TIME (PST) 1207

TAPE: U00975 -003

LONG W 126 12.50

PASS NO. 5

STN: MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
5.0	5.0	22.78	10.20	17.45	62.97*
10.0	10.1	28.28	9.00	21.90	5.42*
14.9	14.9	29.23	8.66	22.69	51.59*
19.9	20.0	29.95	8.48	23.28	40.22*
24.9	25.0	30.29	8.35	23.56	28.85*
29.9	30.0	30.41	8.27	23.66	17.63*
34.8	35.0	30.57	8.08	23.82	13.18*
39.9	40.1	30.68	8.02	23.92	8.88*
44.8	45.1	30.80	8.00	24.01	8.36*
49.7	50.0	30.88	8.09	24.06	7.85*
59.7	60.0	31.08	8.05	24.22	7.65*
69.7	70.0	31.19	8.05	24.30	7.36
79.6	80.0	31.28	8.05	24.38	6.26
89.7	90.1	31.45	8.08	24.50	4.58*
99.6	100.1	31.51	8.09	24.55	6.76*
109.6	110.1	31.61	8.12	24.62	4.64*
120.4	121.1	31.81	8.12	24.78	4.81*
130.2	130.9	31.87	8.12	24.83	5.70*
140.3	141.1	31.94	8.13	24.88	5.08*
150.2	151.0	32.01	8.12	24.94	5.43
160.2	161.0	32.07	8.12	24.98	4.48
170.1	171.1	32.11	8.13	25.01	3.89*
174.6	175.6	32.11	8.13	25.02	4.15

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980  
 LAT N 50 38.50  
 DATE 29/ 8/80  
 TIME (PST) 1134

TAPE: U00975 -002  
 LONG W 126 17.30  
 PASS NO. 3  
 STN: KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
5.0	5.0	19.09	11.00	14.48	91.09*
10.0	10.1	29.38	8.88	22.77	11.65
15.0	15.0	29.90	8.60	23.22	68.05*
19.9	20.0	30.47	8.37	23.70	45.01*
24.8	24.9	30.53	8.35	23.75	24.92*
29.9	30.0	30.63	8.26	23.84	15.41*
34.9	35.0	30.83	8.19	24.01	6.24*
39.8	40.0	30.97	8.17	24.12	7.86*
44.8	45.0	31.11	8.18	24.23	9.40*
49.8	50.0	31.24	8.21	24.32	8.70*
59.7	59.9	31.34	8.22	24.40	7.96*
69.6	69.9	31.35	8.24	24.41	6.54*
79.5	79.9	31.51	8.20	24.54	3.22*
89.6	90.1	31.68	8.16	24.67	4.25*
100.5	101.0	31.80	8.13	24.77	6.60*
110.3	110.9	31.94	8.12	24.88	5.98*
120.3	121.0	31.98	8.12	24.91	5.23*
130.3	131.0	32.03	8.11	24.95	4.00*
140.3	141.0	32.06	8.11	24.98	2.91*
150.1	151.0	32.10	8.10	25.01	3.73
160.2	161.1	32.11	8.10	25.02	2.69*
170.2	171.1	32.13	8.09	25.04	2.13*
180.1	181.1	32.14	8.09	25.05	2.44*
190.0	191.1	32.17	8.08	25.07	2.07*
200.0	201.1	32.17	8.08	25.07	2.21*
223.7	225.0	32.18	8.08	25.08	1.99*

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 38.10

DATE 29/ 8/80

TIME (PST) 1015

TAPE: U00975 -001

LONG W 126 25.20

PASS NO. 1

STN: KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
5.0	5.0	23.36	10.56	17.85	68.44
10.0	10.0	26.89	9.51	20.74	5.26*
15.0	15.1	29.29	9.08	22.68	54.29
19.9	20.0	30.17	8.91	23.38	39.89*
24.9	25.0	30.39	8.91	23.56	25.97
29.9	30.0	30.54	8.85	23.68	9.33
34.8	34.9	30.79	8.80	23.88	14.39
39.8	40.0	30.97	8.73	24.04	10.41*
44.8	45.0	31.24	8.57	24.27	11.23*
49.7	49.9	31.29	8.54	24.32	10.25*
59.7	60.0	31.34	8.53	24.36	9.16*
69.6	70.0	31.44	8.46	24.44	6.45*
79.6	80.0	31.64	8.35	24.62	4.57*
90.5	91.0	31.71	8.27	24.68	6.37*
100.4	101.0	31.79	8.25	24.75	5.34*
110.4	111.0	31.88	8.23	24.82	4.14
120.3	121.0	31.93	8.21	24.86	5.84
130.4	131.1	31.96	8.19	24.89	4.22
140.3	141.0	31.98	8.19	24.90	3.80*
150.2	151.1	32.06	8.15	24.97	3.30*
160.1	160.9	32.07	8.14	24.98	3.59*
170.1	171.0	32.08	8.14	24.99	4.24*
179.9	180.9	32.10	8.13	25.00	1.22*
190.0	191.1	32.10	8.13	25.01	1.04*
200.0	201.1	32.11	8.13	25.01	1.85*
224.8	226.0	32.13	8.11	25.03	1.13*
246.5	247.9	32.14	8.11	25.04	1.22*



CRUISE NO. 81-0 (NO. 27)





## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 51 2.30

DATE 3/ 9/80

TIME (PST) 1146

TAPE: U00975 -018

LONG W 125 33.80

PASS NO. 1

STN: KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.0	2.0	1.04	6.91	.82	159.61
5.0	4.9	1.16	7.13	.90	15.74*
10.1	10.1	28.07	8.57	21.80	116.39
14.9	14.9	29.60	7.91	23.08	73.18
19.9	20.0	30.03	7.56	23.46	29.96
24.9	25.1	30.26	7.33	23.68	18.24
29.9	30.0	30.38	7.16	23.79	10.93*
35.0	35.1	30.45	7.05	23.86	7.59*
39.8	40.0	30.52	7.00	23.92	6.82*
44.8	45.0	30.58	6.96	23.98	6.06*
49.8	50.0	30.63	7.03	24.01	5.45*
59.8	60.0	30.78	7.24	24.10	4.85
69.7	70.0	30.86	7.33	24.14	4.26
79.6	79.9	30.90	7.35	24.18	3.99
89.6	90.0	30.96	7.29	24.23	4.48*
100.5	101.0	30.99	7.27	24.26	3.20*
110.4	111.0	31.01	7.26	24.27	2.34*
120.4	121.0	31.03	7.25	24.29	2.43*
130.3	130.9	31.04	7.24	24.30	2.47*
140.5	141.1	31.05	7.23	24.31	1.98*
150.3	151.0	31.06	7.23	24.32	1.48*
160.3	161.1	31.07	7.25	24.33	1.71*
170.2	171.0	31.09	7.25	24.34	.92*
180.2	181.0	31.10	7.25	24.35	2.03*
190.1	191.0	31.11	7.24	24.36	1.72*
199.9	200.9	31.12	7.28	24.36	1.52*
224.9	226.0	31.15	7.27	24.38	1.27*
234.6	235.7	31.15	7.27	24.38	1.53*

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 58.90

DATE 3/ 9/80

TIME (PST) 1222

TAPE: U00975 -019

LONG W 125 33.20

PASS NO. 3

STN: KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
5.1	5.0	.72	8.23	.49	516.53
10.0	10.1	27.99	8.65	21.73	47.28
15.0	15.1	29.62	7.94	23.10	253.03
19.8	19.9	29.96	7.61	23.41	38.33
25.0	25.1	30.24	7.42	23.65	19.12
29.9	30.0	30.36	7.25	23.77	10.68*
34.8	35.0	30.46	7.05	23.87	10.71*
39.7	39.9	30.53	6.98	23.94	9.08*
44.8	45.0	30.62	6.98	24.00	7.49*
49.8	50.0	30.68	7.05	24.05	6.69*
59.6	59.9	30.82	7.31	24.12	5.90*
69.6	69.9	30.88	7.35	24.16	5.35*
79.6	80.0	30.93	7.33	24.21	4.35*
90.4	90.9	30.97	7.29	24.24	3.65*
100.4	100.9	31.01	7.25	24.27	3.30*
110.5	111.0	31.02	7.25	24.29	3.25*
120.4	121.0	31.04	7.25	24.30	2.84*
130.3	130.9	31.05	7.26	24.31	2.03*
140.3	140.9	31.06	7.24	24.32	1.63*
150.1	150.8	31.07	7.23	24.33	1.56*
160.1	160.9	31.08	7.24	24.33	1.93
170.2	171.0	31.09	7.24	24.34	3.74*
180.0	180.9	31.10	7.25	24.34	1.42*
190.1	191.0	31.11	7.26	24.35	1.50*
200.1	201.0	31.12	7.28	24.36	1.69*
225.0	226.1	31.15	7.34	24.37	1.72*
249.8	251.0	31.16	7.30	24.39	.68*
274.6	276.0	31.18	7.35	24.40	+
300.5	302.0	31.17	7.25	24.40	+
323.3	324.9	31.17	7.24	24.40	+

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 54.30

DATE 3/ 9/80

TIME (PST) 1314

TAPE: U00975 -020

LONG W 125 32.80

PASS NO. 5

STN: KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
5.1	5.0	8.67	8.75	6.67	297.72
10.0	10.0	28.21	8.67	21.89	31.11
14.9	14.9	29.52	8.07	23.00	160.31
19.8	19.9	29.93	7.77	23.36	45.98*
24.9	25.0	30.17	7.62	23.57	21.22*
29.9	30.0	30.35	7.34	23.74	16.07*
34.8	35.0	30.44	7.12	23.85	11.00*
39.9	40.1	30.53	7.00	23.93	9.36*
44.7	44.9	30.57	6.98	23.97	7.74*
49.8	50.0	30.66	7.02	24.03	6.98*
59.7	59.9	30.75	7.17	24.08	6.18*
70.5	70.8	30.88	7.37	24.16	4.88*
79.6	80.0	30.92	7.35	24.19	4.41*
90.5	90.9	30.95	7.31	24.22	5.08
99.6	100.1	30.99	7.28	24.25	3.83*
109.6	110.2	31.02	7.27	24.28	4.30*
120.4	120.9	31.04	7.25	24.30	3.06*
130.4	131.1	31.05	7.24	24.31	2.38*
140.2	140.9	31.07	7.28	24.32	2.65
150.2	150.9	31.09	7.37	24.32	2.57*
160.3	161.1	31.12	7.45	24.34	4.75
170.2	171.0	31.13	7.47	24.34	2.04*
180.1	180.9	31.16	7.53	24.35	1.64*
190.0	190.9	31.18	7.59	24.36	1.42*
199.9	200.9	31.17	7.52	24.37	3.55*
224.9	226.0	31.19	7.55	24.38	1.63*
249.8	251.0	31.20	7.51	24.39	1.10*
274.8	276.2	31.21	7.50	24.40	1.06*
299.6	301.1	31.17	7.30	24.40	+
325.4	327.0	31.19	7.29	24.41	+
350.3	352.0	31.19	7.29	24.41	.89*
375.2	377.0	31.25	7.58	24.42	4.86
400.1	402.0	31.29	7.76	24.43	+
418.5	420.6	31.31	7.85	24.43	3.02*

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 52.40

DATE 3/ 9/80

TIME (PST) 1357

TAPE: U00975 -021

LONG W 125 38.50

PASS NO. 8

STN: KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.0	2.0	.91	9.50	.54	162.00
5.1	5.0	2.68	9.40	1.94	16.24*
10.0	10.0	28.38	8.65	22.03	119.27
15.0	15.0	29.71	7.97	23.16	76.54
19.9	20.0	30.09	7.70	23.50	33.81
24.9	25.0	30.34	7.48	23.72	17.52*
29.7	29.9	30.43	7.39	23.80	10.30
34.8	35.0	30.53	7.17	23.91	7.75
39.8	40.0	30.58	7.07	23.96	8.20*
44.8	45.0	30.65	7.05	24.02	5.73*
49.8	50.0	30.73	7.15	24.07	5.17*
59.7	60.0	30.81	7.29	24.12	4.63
69.7	70.0	30.88	7.34	24.16	4.25
79.7	80.1	30.94	7.33	24.21	4.29*
89.7	90.1	30.99	7.29	24.25	4.14*
100.5	101.0	31.02	7.33	24.28	2.77*
110.4	111.0	31.05	7.37	24.29	2.25*
120.4	121.0	31.09	7.46	24.31	2.64*
130.4	131.0	31.09	7.47	24.31	2.26*
140.3	140.9	31.09	7.36	24.32	1.68*
150.3	151.0	31.12	7.43	24.34	1.88*
160.2	161.0	31.13	7.47	24.34	3.14
170.3	171.1	31.15	7.51	24.35	2.00*
180.0	180.9	31.16	7.54	24.35	1.45*
190.1	191.1	31.18	7.56	24.36	1.62*
200.1	201.1	31.20	7.63	24.37	1.41*
224.8	225.9	31.22	7.70	24.38	.96*
249.8	251.0	31.23	7.67	24.39	1.30*
274.5	275.9	31.22	7.51	24.41	.81*
300.5	302.0	31.21	7.44	24.41	1.33*
325.3	326.9	31.19	7.36	24.40	.47*
350.3	352.0	31.19	7.26	24.41	1.04*
375.2	377.1	31.23	7.49	24.42	+
400.0	402.0	31.32	7.90	24.43	2.27*
425.0	427.1	31.34	7.96	24.44	1.35*
449.8	452.0	31.34	7.97	24.44	.71*
474.6	477.0	31.34	7.98	24.44	+
477.7	480.1	31.34	7.96	24.44	



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 47.90

DATE 3/ 9/80

TIME (PST) 1453

TAPE: U00975 -022

LONG W 125 37.00

PASS NO. 10

STN: KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.1	2.0	3.32	11.29	2.25	+
5.1	5.1	8.46	10.47	6.33	32.71
10.0	10.0	28.51	8.53	22.14	109.56
15.1	15.1	29.56	8.07	23.03	58.57
19.9	20.0	30.04	7.77	23.45	17.37
24.9	25.0	30.29	7.57	23.67	15.20*
29.9	30.0	30.42	7.41	23.80	11.03*
34.9	35.0	30.51	7.25	23.89	9.06*
39.9	40.0	30.58	7.26	23.94	7.12*
44.8	45.0	30.62	7.18	23.98	5.99*
49.8	50.0	30.66	7.18	24.01	4.93*
59.7	60.0	30.79	7.25	24.11	5.29*
69.8	70.1	30.88	7.35	24.16	5.00*
79.7	80.1	30.92	7.33	24.19	3.63*
89.6	90.0	30.97	7.31	24.24	3.60*
99.5	100.0	31.01	7.29	24.27	3.61*
110.5	111.0	31.04	7.32	24.29	2.46*
120.4	121.0	31.07	7.34	24.31	2.08*
130.4	131.0	31.07	7.36	24.31	1.89*
140.4	141.1	31.10	7.41	24.33	1.53*
150.3	151.0	31.11	7.45	24.33	1.70*
160.3	161.1	31.13	7.46	24.34	1.41*
170.2	171.0	31.16	7.58	24.35	1.52*
180.2	181.1	31.18	7.67	24.36	1.50*
190.1	191.0	31.19	7.71	24.36	1.72*
200.0	201.0	31.20	7.73	24.36	1.00*
224.9	226.0	31.22	7.79	24.37	.77*
249.8	251.0	31.24	7.74	24.39	1.67*
274.6	276.0	31.24	7.64	24.40	+
299.6	301.1	31.24	7.53	24.41	1.10*
325.4	327.0	31.22	7.47	24.41	.50*
350.2	351.9	31.23	7.52	24.42	+
375.2	377.0	31.27	7.72	24.42	+
400.0	402.0	31.33	7.93	24.43	1.44*
425.0	427.1	31.34	7.97	24.44	.39*
449.8	452.0	31.35	7.99	24.44	1.02*
474.6	477.0	31.35	7.99	24.44	.10*
499.5	502.0	31.35	8.00	24.44	+
502.6	505.1	31.35	8.00	24.44	

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 45.10

DATE 3/ 9/80

TIME (PST) 1539

TAPE: U00975 -023

LONG W 125 41.00

PASS NO. 12

STN: KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.0	2.0	1.79	11.38	1.05	+
5.1	5.1	8.11	10.75	6.03	25.38
10.1	10.1	28.95	8.20	22.54	116.69
15.0	15.1	29.54	8.03	23.02	56.68
19.9	20.0	29.99	7.84	23.40	19.36
24.9	25.0	30.32	7.67	23.68	16.08
29.8	29.9	30.41	7.54	23.77	12.58*
34.9	35.1	30.51	7.44	23.86	7.18*
39.9	40.1	30.58	7.28	23.93	7.18*
44.8	45.0	30.66	7.16	24.02	7.11*
49.8	50.0	30.72	7.31	24.04	5.55*
59.8	60.1	30.80	7.26	24.11	4.11
69.7	70.0	30.84	7.29	24.14	4.63*
79.6	80.0	30.94	7.32	24.21	4.07*
89.6	90.0	30.97	7.32	24.24	3.74*
99.5	100.0	31.00	7.34	24.26	2.56*
110.4	110.9	31.05	7.38	24.29	2.79*
120.3	120.9	31.08	7.45	24.31	2.60*
130.3	130.9	31.10	7.48	24.32	2.09*
140.4	141.1	31.14	7.57	24.33	2.15*
150.3	151.0	31.16	7.64	24.34	3.18
160.2	161.0	31.19	7.75	24.35	1.86*
170.1	170.9	31.19	7.74	24.35	1.72*
180.1	181.0	31.20	7.75	24.35	.97*
190.1	191.1	31.22	7.81	24.36	.95*
200.0	201.0	31.24	7.84	24.37	1.54*
224.9	226.0	31.26	7.89	24.38	1.54*
249.8	251.0	31.26	7.88	24.39	.86*
274.7	276.0	31.27	7.86	24.40	.89*
300.5	302.0	31.27	7.80	24.41	1.13*
325.4	327.0	31.25	7.62	24.41	.89*
350.3	352.0	31.29	7.84	24.41	+
375.1	377.0	31.30	7.86	24.42	1.01*
400.0	402.0	31.31	7.89	24.42	+
424.9	427.0	31.33	7.96	24.43	1.34*
449.8	452.1	31.34	7.98	24.43	1.07*
474.7	477.0	31.34	7.99	24.44	+
498.1	500.5	31.34	7.99	24.44	.84*

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 41.90

DATE 3/ 9/80

TIME (PST) 1630

TAPE: U00975 -024

LONG W 125 43.50

PASS NO. 14

STN: SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.1	2.0	4.24	11.13	2.98	234.68
5.0	5.0	21.22	9.52	16.34	78.21
10.1	10.1	28.51	8.32	22.18	100.49
15.1	15.1	29.23	8.13	22.77	42.92
20.0	20.1	29.94	7.93	23.35	30.55
24.9	25.0	30.16	7.84	23.53	15.46
29.9	30.0	30.37	7.83	23.70	10.63*
34.9	35.0	30.50	7.76	23.81	9.15*
39.8	40.0	30.61	7.69	23.91	8.25*
44.8	45.0	30.67	7.52	23.98	7.34*
49.8	50.1	30.74	7.52	24.02	6.32*
59.7	60.0	30.78	7.30	24.09	5.51
69.6	69.9	30.87	7.37	24.15	7.99*
79.5	79.9	30.93	7.34	24.20	4.04*
89.5	90.0	30.99	7.44	24.24	3.53*
100.4	100.9	31.06	7.50	24.28	3.69*
110.4	111.0	31.08	7.46	24.30	3.27*
120.4	121.0	31.11	7.56	24.31	2.48*
130.5	131.1	31.14	7.64	24.33	2.10*
140.2	140.9	31.15	7.65	24.33	1.68*
150.3	151.0	31.17	7.74	24.34	1.42*
160.2	161.0	31.18	7.75	24.34	1.23*
170.2	171.0	31.20	7.81	24.35	1.50*
180.2	181.1	31.21	7.84	24.35	1.29*
190.2	191.1	31.22	7.87	24.36	1.55*
200.0	201.0	31.24	7.90	24.36	1.40*
224.9	226.0	31.25	7.90	24.38	1.66*
249.6	251.0	31.27	7.90	24.39	1.23*
274.7	276.0	31.27	7.86	24.40	.54*
299.5	301.0	31.30	7.94	24.41	+
325.5	327.1	31.32	7.95	24.42	.96*
350.3	352.0	31.33	7.96	24.43	1.51*
375.1	377.0	31.33	7.96	24.43	+
400.1	402.1	31.33	7.96	24.43	.59*
425.0	427.1	31.33	7.96	24.43	.45*
439.7	441.8	31.33	7.96	24.43	+

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 41.70

DATE 3/ 9/80

TIME (PST) 1656

TAPE: U00975 -025

LONG W 125 46.60

PASS NO. 16

STN: SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.1	2.0	5.51	11.14	3.96	240.37
5.0	5.0	23.29	9.11	18.00	54.95
10.1	10.1	28.72	8.26	22.35	120.19
15.0	15.0	29.69	8.02	23.14	27.34
20.0	20.1	30.03	7.96	23.41	13.90*
24.9	25.0	30.39	7.85	23.71	13.49*
29.9	30.0	30.53	7.80	23.83	10.33*
34.8	35.0	30.59	7.76	23.88	7.23*
39.8	40.0	30.66	7.76	23.94	6.14*
44.8	45.0	30.70	7.74	23.97	5.09*
49.8	50.0	30.78	7.67	24.04	5.05*
59.8	60.1	30.85	7.64	24.10	4.99*
69.6	70.0	30.89	7.48	24.15	4.54*
79.7	80.0	30.93	7.49	24.18	5.53*
89.6	90.0	30.96	7.38	24.22	3.15*
99.5	100.0	31.02	7.47	24.26	3.38*
110.5	111.0	31.04	7.41	24.28	2.87*
120.4	121.0	31.08	7.50	24.30	2.47*
130.4	131.0	31.13	7.60	24.32	2.64*
140.3	140.9	31.15	7.69	24.33	2.28*
150.4	151.1	31.17	7.76	24.33	1.40*
160.3	161.1	31.20	7.82	24.35	1.46*
170.2	171.0	31.22	7.85	24.36	1.85*
180.1	181.0	31.23	7.89	24.36	1.84*
190.0	191.0	31.25	7.90	24.37	1.55*
200.0	201.0	31.25	7.92	24.37	1.41*
224.8	225.9	31.27	7.95	24.39	1.19*
249.9	251.1	31.28	7.95	24.39	+
274.6	276.0	31.29	7.95	24.40	1.10*
299.5	301.0	31.31	7.95	24.42	1.32*
325.5	327.2	31.33	7.96	24.43	1.31*
350.3	352.0	31.34	7.96	24.44	.38*
375.0	376.9	31.35	7.97	24.44	.87*
379.0	380.9	31.35	7.97	24.44	+

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 41.60

DATE 3/ 9/80

TIME (PST) 1718

TAPE: U00975 -026

LONG W 125 49.30

PASS NO. 18

STN: TOM. ISL.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.6	2.6	10.80	10.72	8.12	135.24
5.0	5.0	20.16	9.59	15.51	13.36*
10.0	10.0	28.04	8.43	21.79	99.14
14.9	15.0	29.84	8.02	23.26	63.05
19.9	20.0	30.23	7.92	23.57	26.95
25.0	25.1	30.41	7.88	23.72	10.21*
29.9	30.0	30.57	7.85	23.85	8.96*
34.9	35.1	30.68	7.84	23.94	7.97*
39.8	40.0	30.75	7.74	24.00	6.99*
44.8	45.0	30.79	7.74	24.04	6.25*
49.7	50.0	30.84	7.66	24.09	5.54*
59.7	60.0	30.94	7.53	24.18	5.35*
69.7	70.0	30.97	7.52	24.21	4.07*
79.6	80.0	30.99	7.46	24.23	2.78*
89.6	90.0	31.02	7.47	24.26	2.77*
99.6	100.0	31.03	7.45	24.26	2.47*
110.4	111.0	31.08	7.59	24.28	2.05*
120.4	121.0	31.11	7.66	24.30	3.76
130.4	131.0	31.11	7.62	24.31	2.50*
140.3	140.9	31.17	7.76	24.33	1.96*
150.2	151.0	31.17	7.75	24.33	1.82*
160.2	160.9	31.19	7.81	24.34	1.82*
170.2	171.0	31.22	7.87	24.36	1.98*
180.1	181.0	31.22	7.88	24.36	1.64*
190.1	191.0	31.23	7.90	24.36	1.13*
200.0	201.0	31.24	7.92	24.37	1.04*
224.8	225.9	31.25	7.92	24.37	.56*
249.9	251.1	31.27	7.93	24.39	.55*
274.7	276.1	31.29	7.95	24.40	.41*
300.5	302.0	31.32	7.95	24.42	1.30*
325.1	326.7	31.35	7.96	24.44	1.17*
325.1	326.7	31.35	7.96	24.44	



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980  
 LAT N 50 41.10  
 DATE 3/ 9/80  
 TIME (PST) 1738

TAPE: U00975 -027  
 LONG W 125 51.90  
 PASS NO. 20  
 STN: MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.1	2.1	14.18	10.78	10.72	172.45*
4.9	4.9	24.94	9.00	19.30	46.55
10.0	10.1	28.79	8.28	22.40	103.25*
14.9	15.0	29.62	8.11	23.07	35.31*
20.0	20.1	30.19	7.98	23.54	24.52*
24.8	24.9	30.37	7.91	23.68	13.98*
29.9	30.0	30.45	7.89	23.75	10.84*
34.9	35.1	30.62	7.88	23.88	7.74*
39.9	40.0	30.69	7.86	23.94	7.12*
44.7	44.9	30.77	7.85	24.01	6.53*
49.9	50.1	30.88	7.80	24.10	6.61*
59.8	60.1	30.96	7.73	24.17	6.67*
69.6	70.0	31.03	7.73	24.23	5.67*
79.6	80.0	31.05	7.71	24.24	2.93*
89.5	90.0	31.08	7.71	24.27	2.51*
100.5	101.0	31.13	7.79	24.30	2.73*
110.5	111.0	31.17	7.84	24.32	2.76*
120.4	121.0	31.18	7.85	24.33	2.08*
130.4	131.0	31.20	7.87	24.34	1.67*
140.3	141.0	31.20	7.88	24.34	1.80*
150.3	151.0	31.22	7.85	24.35	1.36*
160.1	160.9	31.22	7.89	24.35	1.08*
170.1	171.0	31.24	7.90	24.37	1.77
180.1	181.0	31.24	7.91	24.37	2.81*
190.0	191.0	31.25	7.91	24.38	1.30*
200.0	200.9	31.26	7.91	24.38	1.35*
225.0	226.1	31.27	7.92	24.39	+
249.9	251.1	31.28	7.93	24.39	.45*
274.7	276.1	31.31	7.95	24.41	1.39*
299.7	301.2	31.34	7.95	24.44	1.86*
324.6	326.2	31.35	7.95	24.45	+
327.0	328.7	31.35	7.96	24.44	

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 40.70

DATE 3/ 9/80

TIME (PST) 1757

TAPE: U00975 -028

LONG W 125 54.40

PASS NO. 22

STN: ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
5.0	4.9	16.53	10.12	12.63	96.88*
10.0	10.0	27.27	8.60	21.17	7.67*
14.9	15.0	29.22	8.22	22.74	76.61*
20.0	20.0	30.00	8.02	23.38	56.35*
24.9	25.0	30.30	7.96	23.63	36.09*
29.8	29.9	30.42	7.93	23.72	16.12*
34.8	35.0	30.56	7.89	23.84	12.44*
39.7	39.9	30.68	7.85	23.94	8.87*
44.9	45.1	30.78	7.81	24.02	8.19*
49.8	50.0	30.83	7.81	24.06	7.50*
59.7	60.0	30.94	7.77	24.15	6.36*
69.5	69.9	31.00	7.70	24.21	5.29
79.7	80.1	31.02	7.68	24.23	7.22
89.7	90.1	31.09	7.75	24.27	3.39*
100.5	101.0	31.13	7.81	24.29	3.66*
110.4	111.0	31.14	7.81	24.30	3.44*
120.4	121.0	31.17	7.83	24.32	2.26*
130.3	130.9	31.18	7.85	24.33	2.29*
140.2	140.9	31.20	7.85	24.34	2.09*
150.2	151.0	31.20	7.86	24.34	1.59*
160.3	161.1	31.21	7.87	24.34	1.30*
170.2	171.0	31.22	7.88	24.35	.80*
180.0	180.9	31.23	7.89	24.36	1.23*
190.1	191.0	31.23	7.89	24.36	1.24*
200.1	201.0	31.24	7.90	24.37	1.16*
225.0	226.1	31.26	7.91	24.38	1.37*
249.7	250.9	31.27	7.92	24.38	.90*
274.7	276.1	31.28	7.93	24.39	1.57*
300.5	302.0	31.31	7.94	24.41	1.08*
325.3	326.9	31.33	7.95	24.43	1.07*
350.1	351.9	31.35	7.96	24.44	+
375.1	376.9	31.36	7.96	24.45	.56*
388.0	389.9	31.36	7.97	24.45	.78*

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 40.60

DATE 3/ 9/80

TIME (PST) 1825

TAPE: U00975 -029

LONG W 125 57.20

PASS NO. 24

STN: CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.0	2.0	8.02	11.33	5.89	12.20*
5.0	5.0	21.33	9.64	16.41	13.01
10.0	10.0	29.34	8.19	22.84	31.35*
14.9	15.0	29.90	8.05	23.30	49.79*
20.0	20.1	30.20	8.00	23.54	30.30*
24.9	25.0	30.31	7.97	23.63	11.20*
29.9	30.0	30.47	7.93	23.76	9.57*
34.8	34.9	30.55	7.91	23.83	7.97*
39.9	40.1	30.63	7.90	23.89	7.00*
44.8	45.0	30.71	7.87	23.96	5.94*
49.8	50.0	30.71	7.86	23.96	3.15*
59.8	60.1	30.76	7.84	24.00	.62
69.7	70.1	30.82	7.80	24.05	4.28*
79.6	80.0	31.00	7.84	24.19	5.16*
89.6	90.1	31.03	7.84	24.21	4.66*
99.6	100.1	31.05	7.67	24.25	2.59*
109.5	110.0	31.07	7.73	24.26	2.29*
120.5	121.0	31.09	7.82	24.26	1.72*
130.3	130.9	31.10	7.75	24.28	1.85*
140.2	140.9	31.14	7.81	24.30	2.47*
150.2	151.0	31.15	7.83	24.31	2.26*
160.3	161.1	31.15	7.83	24.31	1.56*
170.2	171.0	31.17	7.81	24.32	1.03*
180.1	181.0	31.19	7.83	24.34	1.76*
190.2	191.1	31.20	7.85	24.34	1.73*
200.0	200.9	31.21	7.87	24.35	1.57*
224.9	226.0	31.25	7.90	24.37	1.88*
249.7	251.0	31.28	7.92	24.39	1.82*
274.7	276.1	31.31	7.93	24.41	2.01*
300.4	301.9	31.32	7.94	24.43	1.68*
325.4	327.0	31.35	7.95	24.44	.84*
346.2	347.9	31.36	7.96	24.45	1.42*

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 40.60

DATE 3/ 9/80

TIME (PST) 1842

TAPE: U00975 -030

LONG W 125 59.50

PASS NO. 26

STN: HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.1	2.1	10.10	11.16	7.52	129.83
5.0	5.0	24.47	9.00	18.94	53.05
10.0	10.0	28.84	8.35	22.43	75.00
14.9	14.9	28.97	8.30	22.54	31.04
20.0	20.0	29.14	8.26	22.68	14.18*
24.9	25.0	30.00	8.05	23.38	15.41
30.0	30.1	30.61	7.91	23.87	21.60*
34.8	34.9	30.63	7.91	23.89	12.20*
39.8	40.0	30.67	7.90	23.92	8.00*
44.7	44.9	30.70	7.89	23.95	4.11*
49.7	49.9	30.87	7.85	24.08	5.59*
59.8	60.0	31.07	7.84	24.24	7.22
64.3	64.6	31.05	7.83	24.23	+

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 39.90

DATE 3/ 9/80

TIME (PST) 1903

TAPE: U00975 -031

LONG W 126 4.20

PASS NO. 28

STN: KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.2	2.2	13.73	10.62	10.40	143.63*
5.0	5.0	23.64	9.25	18.26	39.22
10.0	10.0	29.58	8.30	23.01	91.05*
14.9	15.0	30.35	7.96	23.66	39.17*
19.9	20.0	30.51	7.92	23.79	23.67*
24.9	25.1	30.68	7.87	23.93	8.35*
29.8	30.0	30.85	7.83	24.07	8.43*
35.0	35.1	30.97	7.82	24.17	8.50*
39.9	40.1	31.03	7.83	24.22	7.28*
44.8	45.0	31.10	7.82	24.27	6.10*
49.7	49.9	31.16	7.84	24.31	5.67*
59.6	59.9	31.36	8.04	24.44	5.32
69.6	69.9	31.55	8.11	24.58	8.61
79.6	80.1	31.72	8.13	24.71	7.45
89.6	90.1	31.83	8.13	24.80	6.11
100.5	101.0	31.87	8.13	24.83	4.14*
110.3	110.9	31.92	8.13	24.87	2.67*
120.4	121.1	31.97	8.12	24.91	3.91*
130.3	131.1	32.00	8.13	24.93	3.56*
140.2	140.9	32.00	8.12	24.93	+
150.1	150.9	32.01	8.13	24.94	1.89*
160.1	161.0	32.01	8.13	24.94	1.32*
170.2	171.2	32.03	8.12	24.96	
172.0	172.9	32.03	8.13	24.95	+

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 39.20

DATE 3/ 9/80

TIME (PST) 1937

TAPE: U00975 -032

LONG W 126 12.50

PASS NO. 30

STN: MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
2.2	2.2	15.06	10.79	11.40	+
5.0	5.0	18.70	10.25	14.29	15.97
10.0	10.0	28.87	8.64	22.41	55.75
14.9	15.0	29.78	8.40	23.15	29.88
20.0	20.0	30.36	8.23	23.63	22.69*
24.8	24.9	30.73	8.07	23.95	15.95*
29.9	30.0	30.81	8.12	24.00	10.65*
34.8	35.0	30.85	7.99	24.05	5.60*
39.9	40.0	31.00	8.02	24.16	7.29*
44.9	45.1	31.10	7.93	24.25	8.90*
49.8	50.0	31.19	8.02	24.31	6.76*
59.7	60.0	31.33	8.17	24.40	4.73
69.7	70.1	31.42	8.16	24.47	6.63
79.5	79.9	31.53	8.19	24.55	4.81*
89.6	90.0	31.77	8.16	24.74	7.21*
100.5	101.0	31.81	8.17	24.78	5.70*
110.4	111.0	31.90	8.16	24.84	4.21*
120.3	120.9	31.95	8.14	24.89	4.40*
130.3	131.0	32.00	8.14	24.92	3.74*
140.3	141.0	32.05	8.16	24.96	3.71*
150.2	151.0	32.06	8.17	24.97	3.11*
160.2	161.1	32.06	8.16	24.97	1.12*
170.0	170.9	32.08	8.16	24.99	2.41*
180.0	181.0	32.09	8.14	25.00	1.67*
190.1	191.1	32.10	8.14	25.00	1.20*
191.7	192.8	32.10	8.14	25.00	+



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 01 KNIGHT INLET, 1980

LAT N 50 38.50

DATE 3/ 9/80

TIME (PST) 2002

TAPE: U00975 -033

LONG W 126 17.30

PASS NO. 32

STN: KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	B-V
.0	.0	14.75	10.85	11.16	109.84
2.9	2.8	14.81	10.97	11.19	12.56*
5.0	5.0	16.71	10.69	12.69	77.15
10.0	10.0	28.58	9.05	22.13	44.46
14.9	15.0	30.04	8.30	23.38	17.77*
19.9	20.0	30.49	8.19	23.74	12.44*
25.0	25.1	30.61	8.06	23.85	11.64*
29.8	30.0	30.85	8.19	24.02	10.77*
34.8	35.0	31.06	8.14	24.19	8.03*
39.9	40.1	31.10	8.13	24.22	5.50*
44.7	44.9	31.17	8.09	24.29	6.37*
49.7	50.0	31.25	8.10	24.35	7.36
59.7	60.0	31.51	8.16	24.54	6.46
69.6	70.0	31.60	8.16	24.61	5.21*
79.6	80.0	31.73	8.19	24.71	6.59*
89.6	90.1	31.86	8.16	24.81	4.66*
100.4	101.0	31.94	8.16	24.88	3.76*
110.4	111.0	31.98	8.15	24.91	2.86*
120.4	121.1	32.00	8.16	24.93	2.50*
130.3	131.0	32.03	8.16	24.95	2.39*
140.3	141.0	32.03	8.17	24.95	1.14*
150.2	151.0	32.04	8.17	24.95	.97*
160.1	161.0	32.09	8.13	24.99	2.90*
170.0	171.0	32.10	8.18	25.00	1.76*
180.1	181.1	32.13	8.18	25.02	2.85*
189.9	191.0	32.16	8.18	25.05	1.63*
199.9	201.0	32.17	8.18	25.05	.54*
224.7	226.0	32.19	8.18	25.07	1.65*
235.8	237.1	32.20	8.18	25.08	+



CRUISE NO. 80-3 (NO. 28)



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 51 2.30

DATE 19/11/80

TIME (PST) 0101

TAPE: U00975 -200

LONG W 125 33.80

PASS NO. 33

STN: KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.4	3.3	8.58	5.02	6.86
4.9	4.9	20.51	7.23	16.07
10.0	10.0	29.54	7.91	23.03
15.0	15.1	30.08	7.50	23.52
19.9	20.0	30.34	7.24	23.75
25.0	25.1	30.50	7.13	23.90
30.0	30.1	30.59	7.10	23.97
34.9	35.1	30.66	7.13	24.02
40.1	40.3	30.75	7.20	24.08
44.9	45.1	30.80	7.25	24.11
50.1	50.3	30.87	7.27	24.16
60.1	60.4	30.89	7.25	24.18
69.9	70.2	30.95	7.25	24.23
79.9	80.3	31.00	7.24	24.27
90.0	90.5	31.03	7.24	24.29
100.0	100.5	31.06	7.24	24.31
109.9	110.5	31.09	7.26	24.34
119.9	120.5	31.12	7.28	24.35
130.1	130.7	31.13	7.30	24.36
139.9	140.6	31.15	7.31	24.38
150.1	150.8	31.17	7.31	24.39
160.1	160.9	31.18	7.32	24.40
170.0	170.9	31.19	7.40	24.40
180.1	181.0	31.23	7.53	24.41
190.1	191.0	31.25	7.60	24.41
200.1	201.1	31.27	7.67	24.42
225.0	226.2	31.31	7.85	24.43
231.1	232.2	31.32	7.87	24.43



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980  
 LAT N 50 58.90  
 DATE 19/11/80  
 TIME (PST) 0025

TAPE: U00975 -199  
 LONG W 125 33.20  
 PASS NO. 31  
 STN: KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.2	3.2	8.45	5.12	6.75
4.9	4.9	19.53	7.55	15.27
9.9	9.9	29.73	7.79	23.20
15.0	15.1	30.11	7.53	23.53
20.0	20.1	30.33	7.25	23.74
24.9	25.0	30.43	7.16	23.83
30.1	30.3	30.58	7.08	23.96
35.0	35.2	30.67	7.12	24.03
40.1	40.3	30.77	7.22	24.09
44.9	45.2	30.81	7.26	24.12
50.1	50.3	30.85	7.28	24.15
59.9	60.2	30.92	7.27	24.20
70.1	70.4	30.97	7.26	24.25
80.0	80.4	31.02	7.24	24.28
89.9	90.3	31.05	7.24	24.31
100.0	100.5	31.06	7.24	24.32
110.1	110.7	31.08	7.25	24.33
120.1	120.6	31.11	7.28	24.35
130.1	130.7	31.13	7.31	24.36
140.0	140.7	31.15	7.32	24.38
149.9	150.6	31.16	7.31	24.39
159.9	160.7	31.17	7.31	24.39
170.0	170.8	31.19	7.34	24.40
180.0	180.8	31.19	7.40	24.40
190.0	191.0	31.22	7.52	24.41
199.9	200.9	31.26	7.64	24.42
225.1	226.2	31.31	7.85	24.43
249.9	251.1	31.33	7.91	24.43
274.9	276.3	31.34	7.92	24.44
299.9	301.4	31.35	7.93	24.45
322.2	323.8	31.35	7.94	24.45

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 54.30

DATE 18/11/80

TIME (PST) 2340

TAPE: U00975 -198

LONG W 125 32.80

PASS NO. 29

STN: KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.1	3.1	9.77	5.50	7.78
5.1	5.1	20.51	7.31	16.06
10.0	10.0	29.36	8.03	22.88
15.0	15.0	29.93	7.69	23.37
20.0	20.1	30.30	7.29	23.71
24.9	25.0	30.42	7.17	23.83
30.0	30.1	30.55	7.09	23.94
35.0	35.2	30.66	7.12	24.02
40.0	40.2	30.73	7.17	24.06
45.0	45.2	30.81	7.25	24.12
50.0	50.3	30.86	7.28	24.15
59.9	60.2	30.93	7.28	24.21
70.0	70.3	30.98	7.26	24.25
80.0	80.4	31.01	7.24	24.28
89.9	90.4	31.05	7.30	24.30
100.0	100.5	31.08	7.26	24.33
109.9	110.5	31.09	7.27	24.33
119.9	120.5	31.12	7.32	24.35
130.0	130.7	31.15	7.35	24.37
140.0	140.7	31.16	7.36	24.38
149.9	150.7	31.17	7.36	24.39
159.9	160.7	31.18	7.35	24.40
170.1	170.9	31.19	7.35	24.40
180.1	180.9	31.20	7.44	24.40
190.1	191.0	31.23	7.53	24.41
200.0	201.0	31.26	7.64	24.42
224.9	226.0	31.32	7.87	24.43
250.0	251.3	31.33	7.91	24.44
275.0	276.4	31.34	7.93	24.44
299.9	301.4	31.34	7.94	24.44
325.1	326.7	31.35	7.93	24.45
350.0	351.7	31.35	7.94	24.45
375.0	376.9	31.36	7.94	24.45
400.1	402.1	31.36	7.94	24.45
402.3	404.3	31.36	7.94	24.45

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 52.40

DATE 18/11/80

TIME (PST) 2255

TAPE: U00975 -197

LONG W 125 38.50

PASS NO. 27

STN: KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.0	3.0	17.81	6.76	14.00
5.1	5.1	28.24	8.05	22.00
10.0	10.0	29.73	7.84	23.19
14.9	15.0	30.04	7.63	23.47
20.1	20.2	30.24	7.45	23.64
25.0	25.1	30.48	7.19	23.87
29.9	30.1	30.60	7.14	23.97
35.1	35.3	30.69	7.18	24.04
39.9	40.1	30.79	7.24	24.11
45.0	45.2	30.84	7.27	24.14
50.0	50.3	30.88	7.29	24.17
59.9	60.2	30.96	7.32	24.23
69.9	70.2	30.98	7.29	24.25
80.1	80.5	31.02	7.31	24.27
90.1	90.5	31.06	7.36	24.30
100.1	100.5	31.09	7.38	24.32
110.1	110.6	31.12	7.40	24.34
120.0	120.6	31.14	7.41	24.35
129.9	130.5	31.15	7.42	24.36
140.1	140.8	31.17	7.41	24.38
150.1	150.8	31.17	7.39	24.38
159.9	160.7	31.18	7.37	24.40
170.0	170.8	31.19	7.36	24.40
180.1	181.0	31.20	7.41	24.40
190.0	190.9	31.22	7.51	24.41
200.1	201.1	31.26	7.64	24.42
225.1	226.3	31.30	7.81	24.43
250.0	251.3	31.32	7.88	24.43
275.1	276.4	31.34	7.92	24.44
299.9	301.4	31.34	7.93	24.44
324.9	326.5	31.35	7.92	24.45
350.1	351.8	31.35	7.93	24.45
374.9	376.8	31.35	7.93	24.45
399.9	401.9	31.36	7.94	24.46
425.0	427.1	31.36	7.94	24.46
450.2	452.4	31.37	7.95	24.46
474.9	477.3	31.37	7.95	24.46
492.4	494.9	31.36	7.95	24.46

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 47.90

DATE 18/11/80

TIME (PST) 2210

TAPE: U00975 -196

LONG W 125 37.00

PASS NO. 25

STN: KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
4.0	4.0	27.75	7.84	21.64
4.0	4.0	27.75	7.84	21.64
10.1	10.1	29.41	7.98	22.93
15.0	15.0	30.12	7.56	23.54
20.0	20.1	30.38	7.39	23.76
25.0	25.2	30.49	7.42	23.84
30.0	30.1	30.63	7.33	23.97
35.0	35.1	30.69	7.34	24.01
40.1	40.3	30.77	7.33	24.07
44.9	45.1	30.82	7.46	24.10
50.1	50.3	30.89	7.37	24.16
60.0	60.3	31.01	7.59	24.23
69.9	70.2	31.03	7.42	24.27
80.1	80.5	31.08	7.53	24.29
89.9	90.3	31.11	7.53	24.31
100.0	100.5	31.12	7.45	24.33
110.0	110.5	31.14	7.43	24.35
120.0	120.6	31.16	7.45	24.36
130.1	130.8	31.17	7.44	24.38
139.9	140.6	31.19	7.46	24.39
149.9	150.7	31.20	7.44	24.40
160.1	160.9	31.19	7.41	24.40
170.0	170.8	31.20	7.43	24.40
179.9	180.8	31.23	7.52	24.41
190.1	191.0	31.26	7.66	24.42
200.0	201.0	31.28	7.75	24.42
225.1	226.2	31.31	7.85	24.43
250.1	251.3	31.33	7.89	24.44
274.9	276.3	31.33	7.90	24.44
300.0	301.5	31.34	7.91	24.44
324.9	326.5	31.35	7.92	24.45
350.1	351.8	31.35	7.93	24.45
374.9	376.8	31.35	7.93	24.45
400.1	402.1	31.36	7.94	24.45
424.9	427.0	31.36	7.94	24.46
450.0	452.2	31.36	7.95	24.46
475.1	477.5	31.36	7.95	24.46
500.0	502.5	31.37	7.95	24.46
501.1	503.6	31.37	7.96	24.46

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 45.10

DATE 18/11/80

TIME (PST) 2126

TAPE: U00975 -195

LONG W 125 41.00

PASS NO. 23

STN: KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.7	2.7	17.05	6.47	13.43
5.0	5.0	28.46	7.92	22.19
10.0	10.1	29.72	7.89	23.18
14.9	15.0	29.96	7.78	23.38
20.0	20.1	30.15	7.70	23.54
25.1	25.2	30.31	7.63	23.67
30.2	30.3	30.41	7.55	23.76
34.9	35.0	30.64	7.48	23.96
39.9	40.1	30.69	7.51	23.99
44.9	45.1	30.81	7.62	24.07
49.9	50.2	30.92	7.92	24.11
59.9	60.2	31.00	7.84	24.19
70.0	70.4	31.10	7.99	24.25
80.1	80.5	31.12	7.90	24.27
90.1	90.6	31.15	7.87	24.30
100.0	100.5	31.16	7.81	24.32
110.0	110.5	31.15	7.67	24.33
119.9	120.5	31.17	7.56	24.36
130.0	130.6	31.17	7.54	24.37
139.9	140.6	31.18	7.52	24.38
150.0	150.7	31.19	7.49	24.39
159.9	160.7	31.20	7.49	24.40
169.9	170.8	31.21	7.51	24.40
179.9	180.8	31.25	7.63	24.41
190.2	191.1	31.26	7.67	24.41
200.0	201.0	31.27	7.70	24.42
224.9	226.0	31.29	7.78	24.43
249.9	251.1	31.32	7.85	24.43
275.1	276.5	31.33	7.89	24.44
300.0	301.5	31.35	7.91	24.45
324.9	326.5	31.35	7.92	24.45
350.1	351.8	31.35	7.93	24.45
374.9	376.8	31.36	7.94	24.45
400.1	402.1	31.36	7.95	24.46
424.9	427.0	31.36	7.95	24.45
450.1	452.3	31.37	7.95	24.46
475.0	477.4	31.36	7.95	24.46
496.0	498.5	31.36	7.96	24.45



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 41.90

DATE 18/11/80

TIME (PST) 2048

TAPE: U00975 -194

LONG W 125 43.50

PASS NO. 21

STN: SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.7	2.7	23.63	7.19	18.51
5.1	5.1	27.30	7.71	21.31
10.1	10.1	29.60	7.87	23.09
15.0	15.1	30.01	7.87	23.41
20.1	20.2	30.42	7.98	23.71
25.0	25.1	30.58	8.01	23.84
30.0	30.1	30.63	8.01	23.87
35.0	35.1	30.68	8.03	23.91
40.0	40.2	30.75	8.05	23.97
45.0	45.2	30.91	8.08	24.09
49.9	50.1	30.96	8.08	24.12
59.9	60.2	31.03	8.10	24.17
69.9	70.3	31.06	8.06	24.21
79.9	80.3	31.14	8.06	24.26
90.0	90.4	31.15	8.03	24.28
99.9	100.3	31.17	7.99	24.30
110.0	110.6	31.18	7.97	24.31
119.9	120.5	31.21	7.95	24.34
129.9	130.6	31.20	7.68	24.37
139.8	140.5	31.20	7.62	24.38
149.9	150.6	31.22	7.60	24.39
159.8	160.6	31.23	7.61	24.40
169.8	170.7	31.23	7.60	24.40
179.9	180.8	31.26	7.70	24.41
190.0	191.0	31.27	7.74	24.42
200.0	200.9	31.28	7.82	24.41
225.1	226.3	31.32	7.91	24.43
250.1	251.3	31.33	7.97	24.43
275.2	276.5	31.34	7.94	24.44
300.0	301.5	31.35	7.94	24.45
325.2	326.8	31.35	7.95	24.45
350.1	351.9	31.36	7.95	24.45
375.0	376.9	31.36	7.96	24.45
400.0	402.0	31.36	7.96	24.45
425.0	427.1	31.37	7.96	24.46
438.1	440.3	31.36	7.96	24.46

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 41.70

DATE 18/11/80

TIME (PST) 2023

TAPE: U00975 -193

LONG W 125 46.60

PASS NO. 19

STN: SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.7	2.7	24.40	7.31	19.10
5.1	5.1	27.92	7.79	21.79
9.9	10.0	30.14	7.99	23.49
15.1	15.2	30.33	8.01	23.64
20.1	20.2	30.42	8.01	23.71
25.1	25.2	30.58	8.03	23.83
30.0	30.1	30.76	8.05	23.97
35.1	35.3	30.81	8.07	24.01
40.1	40.3	30.92	8.08	24.09
45.1	45.3	31.01	8.10	24.16
49.9	50.2	31.08	8.09	24.22
60.0	60.3	31.11	8.09	24.23
69.9	70.2	31.14	8.08	24.27
79.9	80.3	31.17	8.06	24.29
90.1	90.6	31.19	8.02	24.31
99.9	100.3	31.20	7.98	24.32
110.1	110.6	31.20	7.96	24.33
119.9	120.5	31.21	7.94	24.34
129.9	130.6	31.22	7.94	24.34
139.9	140.6	31.23	7.88	24.36
150.1	150.8	31.24	7.84	24.38
159.9	160.7	31.24	7.70	24.39
170.0	170.8	31.26	7.75	24.40
180.1	181.0	31.26	7.75	24.41
190.0	191.0	31.27	7.75	24.41
200.1	201.1	31.28	7.81	24.41
225.0	226.1	31.33	7.93	24.43
250.0	251.3	31.34	7.98	24.44
275.2	276.5	31.34	7.98	24.44
299.9	301.4	31.35	7.95	24.44
325.0	326.6	31.36	7.96	24.45
350.0	351.7	31.36	7.95	24.45
375.0	376.9	31.36	7.96	24.45

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 41.60

DATE 18/11/80

TIME (PST) 2000

TAPE: U00975 -192

LONG W 125 49.30

PASS NO. 17

STN: TOM. ISL.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.7	2.7	24.26	7.35	18.99
5.0	5.0	29.30	7.88	22.85
10.0	10.1	29.87	7.94	23.29
14.9	15.0	30.34	8.00	23.65
20.0	20.1	30.64	8.04	23.88
25.1	25.2	30.86	8.07	24.05
30.1	30.3	30.90	8.07	24.08
35.0	35.2	30.98	8.09	24.13
39.9	40.1	31.02	8.10	24.17
45.0	45.2	31.07	8.09	24.21
49.9	50.1	31.09	8.09	24.22
59.9	60.2	31.16	8.06	24.28
70.1	70.4	31.17	8.07	24.29
79.9	80.3	31.18	8.05	24.30
89.9	90.3	31.20	8.05	24.31
100.0	100.5	31.20	7.95	24.33
110.2	110.7	31.20	7.91	24.33
120.2	120.8	31.21	7.87	24.35
130.0	130.7	31.24	7.79	24.38
140.1	140.8	31.28	7.94	24.39
150.0	150.8	31.28	7.92	24.40
159.9	160.7	31.29	7.92	24.40
170.1	171.0	31.30	7.95	24.41
180.0	180.9	31.29	7.85	24.42
190.0	191.0	31.30	7.87	24.42
200.1	201.1	31.30	7.88	24.42
225.1	226.2	31.32	7.92	24.43
249.9	251.1	31.33	7.94	24.43
275.1	276.4	31.34	7.96	24.44
299.9	301.3	31.35	7.97	24.44
324.9	326.5	31.35	7.96	24.45
338.0	339.7	31.36	7.96	24.45

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 41.10

DATE 18/11/80

TIME (PST) 1939

TAPE: U00975 -191

LONG W 125 51.90

PASS NO. 15

STN: MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.6	2.6	28.86	7.81	22.52
4.9	4.9	29.18	7.83	22.76
10.0	10.0	29.67	7.90	23.14
15.0	15.0	30.50	8.01	23.77
20.0	20.1	30.79	8.05	23.99
25.0	25.2	30.87	8.06	24.06
30.1	30.2	30.94	8.12	24.10
35.1	35.3	31.06	8.13	24.19
40.1	40.3	31.08	8.13	24.21
45.1	45.3	31.11	8.06	24.24
50.0	50.2	31.13	8.05	24.26
60.2	60.4	31.16	8.00	24.29
70.1	70.4	31.19	8.03	24.31
79.8	80.2	31.24	8.05	24.34
89.9	90.4	31.24	7.94	24.36
100.1	100.6	31.26	7.97	24.37
110.2	110.7	31.26	7.94	24.38
119.9	120.5	31.25	7.83	24.39
129.9	130.5	31.28	7.89	24.40
140.0	140.7	31.29	7.98	24.40
150.2	150.9	31.30	7.97	24.41
159.9	160.7	31.32	8.04	24.41
170.1	170.9	31.32	8.05	24.41
179.9	180.8	31.33	8.06	24.42
190.1	191.0	31.35	8.07	24.43
200.1	201.1	31.35	8.09	24.43
225.1	226.3	31.36	8.10	24.43
250.0	251.3	31.36	8.10	24.43
275.0	276.4	31.37	8.09	24.44
299.9	301.4	31.37	8.09	24.44
323.1	324.7	31.37	8.02	24.45

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 40.70

DATE 18/11/80

TIME (PST) 1908

TAPE: U00975 -190

LONG W 125 54.40

PASS NO. 13

STN: ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.5	2.5	26.36	7.59	20.60
5.1	5.1	27.68	7.72	21.61
10.0	10.1	30.24	8.01	23.57
15.0	15.0	30.55	8.01	23.82
20.1	20.2	30.71	8.03	23.93
25.0	25.1	30.83	8.11	24.02
30.1	30.3	30.92	8.13	24.09
34.9	35.1	30.95	8.13	24.11
39.9	40.1	31.08	8.13	24.21
45.0	45.2	31.14	8.13	24.25
50.0	50.3	31.18	8.13	24.29
60.0	60.3	31.21	8.12	24.31
70.0	70.3	31.24	8.12	24.33
80.0	80.4	31.24	8.12	24.34
90.1	90.5	31.25	8.08	24.35
100.1	100.5	31.28	8.07	24.38
110.1	110.6	31.29	8.06	24.38
120.1	120.6	31.28	7.99	24.39
130.2	130.8	31.29	8.02	24.39
140.0	140.7	31.30	8.04	24.39
150.0	150.7	31.34	8.09	24.42
160.1	160.9	31.34	8.10	24.42
170.0	170.9	31.35	8.09	24.43
179.9	180.8	31.36	8.08	24.44
190.0	190.9	31.36	8.06	24.44
200.0	201.0	31.36	8.07	24.44
225.0	226.1	31.37	8.07	24.44
250.1	251.3	31.37	8.05	24.44
274.9	276.3	31.37	8.03	24.45
300.1	301.6	31.36	8.03	24.45
325.2	326.8	31.36	8.02	24.45
350.0	351.7	31.36	8.02	24.45
375.0	376.9	31.36	8.02	24.45
400.1	402.1	31.36	8.03	24.44
402.8	404.8	31.35	8.03	24.43



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980  
 LAT N 50 40.60  
 DATE 18/11/80  
 TIME (PST) 1841

TAPE: U00975 -189  
 LONG W 125 57.20  
 PASS NO. 11  
 STN: CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.6	2.6	28.41	7.81	22.17
4.9	4.9	28.80	7.79	22.48
9.9	9.9	29.65	7.97	23.11
14.9	15.0	29.80	7.99	23.23
20.0	20.1	29.93	8.01	23.33
25.1	25.2	30.19	8.05	23.53
30.0	30.1	30.40	8.09	23.68
35.1	35.2	30.55	8.06	23.80
39.9	40.0	30.73	8.11	23.94
44.9	45.1	30.79	8.12	23.99
50.0	50.3	30.84	8.12	24.02
59.9	60.2	30.97	8.13	24.13
70.0	70.4	31.06	8.14	24.19
80.0	80.4	31.12	8.15	24.24
89.9	90.4	31.15	8.15	24.26
99.9	100.4	31.18	8.15	24.28
110.0	110.5	31.21	8.13	24.31
119.8	120.4	31.23	8.13	24.32
130.0	130.6	31.25	8.13	24.34
140.1	140.7	31.29	8.12	24.38
149.8	150.6	31.30	8.12	24.38
159.9	160.7	31.30	8.12	24.38
169.9	170.8	31.31	8.12	24.39
180.1	181.0	31.31	8.12	24.39
189.9	190.8	31.32	8.12	24.40
200.1	201.1	31.32	8.11	24.40
225.2	226.3	31.33	8.10	24.41
249.9	251.1	31.34	8.09	24.42
274.9	276.3	31.35	8.10	24.43
300.2	301.7	31.36	8.10	24.43
325.1	326.7	31.36	8.09	24.44
332.7	334.3	31.36	8.09	24.44

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 40.60

DATE 18/11/80

TIME (PST) 1822

TAPE: U00975 -188

LONG W 125 59.50

PASS NO. 9

STN: HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.6	2.6	27.94	7.75	21.81
5.0	5.0	28.60	7.82	22.31
9.9	9.9	28.92	7.87	22.56
15.1	15.2	30.03	8.04	23.40
20.0	20.1	30.77	8.10	23.97
24.9	25.0	30.77	8.10	23.97
30.1	30.2	30.78	8.10	23.98
35.0	35.1	30.97	8.11	24.12
40.0	40.2	31.07	8.12	24.20
45.1	45.3	31.16	8.14	24.27
50.1	50.3	31.16	8.14	24.27
60.0	60.3	31.30	8.18	24.37
63.9	64.2	31.35	8.20	24.41

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980  
 LAT N 50 39.90  
 DATE 18/11/80  
 TIME (PST) 1756

TAPE: U00975 -187  
 LONG W 126 4.20  
 PASS, NO. 7  
 STN: KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
1.0	1.0	27.83	7.69	21.73
2.4	2.4	27.84	7.75	21.73
5.0	5.0	27.90	7.77	21.77
10.0	10.1	29.34	8.04	22.87
15.1	15.2	30.15	8.28	23.46
20.1	20.2	30.50	8.34	23.72
24.9	25.0	30.67	8.34	23.86
30.0	30.2	30.82	8.29	23.98
34.9	35.0	30.87	8.28	24.03
40.1	40.3	30.89	8.28	24.04
45.0	45.2	30.98	8.24	24.11
50.1	50.4	31.05	8.17	24.18
60.0	60.3	31.14	8.13	24.26
70.2	70.5	31.24	8.18	24.33
80.1	80.5	31.32	8.20	24.39
90.1	90.6	31.41	8.34	24.44
100.0	100.5	31.48	8.48	24.47
109.9	110.4	31.50	8.49	24.49
120.1	120.7	31.52	8.44	24.51
129.8	130.5	31.53	8.44	24.52
140.1	140.8	31.55	8.45	24.53
150.0	150.8	31.56	8.45	24.54
159.9	160.7	31.58	8.44	24.55
170.0	170.9	31.59	8.43	24.56
179.9	180.8	31.60	8.43	24.58
189.9	190.9	31.61	8.43	24.58
200.0	201.1	31.61	8.43	24.58
200.2	201.2	31.60	8.43	24.58

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 39.20

DATE 18/11/80

TIME (PST) 1714

TAPE: U00975 -186

LONG W 126 12.50

PASS NO. 5

STN: MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.5	2.5	28.24	7.79	22.03
5.1	5.1	28.24	7.80	22.03
10.0	10.0	28.58	7.90	22.29
14.9	15.0	29.10	8.03	22.68
20.0	20.1	29.62	8.16	23.06
25.1	25.2	30.23	8.41	23.50
30.0	30.2	30.82	8.43	23.96
35.1	35.3	30.91	8.43	24.03
40.0	40.2	30.95	8.39	24.07
44.9	45.1	30.97	8.37	24.09
50.1	50.4	31.15	8.42	24.22
59.9	60.2	31.23	8.42	24.29
70.0	70.3	31.29	8.47	24.32
80.0	80.4	31.32	8.47	24.35
90.1	90.6	31.40	8.54	24.40
100.1	100.6	31.49	8.58	24.46
110.1	110.7	31.54	8.56	24.51
120.1	120.7	31.54	8.56	24.51
129.8	130.5	31.56	8.56	24.52
139.9	140.6	31.57	8.54	24.53
150.1	150.8	31.59	8.53	24.55
159.9	160.8	31.60	8.50	24.56
170.1	170.9	31.60	8.49	24.56
180.1	181.0	31.61	8.49	24.57
184.4	185.3	31.60	8.47	24.57

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980  
 LAT N 50 38.50  
 DATE 18/11/80  
 TIME (PST) 1644

TAPE: U00975 -185  
 LONG W 126 17.30  
 PASS NO. 3  
 STN: KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.4	2.4	28.10	7.81	21.92
5.0	5.0	28.12	7.81	21.94
10.0	10.0	28.26	7.82	22.05
15.1	15.1	29.20	8.05	22.75
20.0	20.1	29.94	8.22	23.31
25.1	25.2	30.51	8.35	23.73
29.9	30.1	30.83	8.41	23.97
34.9	35.0	31.05	8.45	24.14
40.0	40.2	31.06	8.45	24.15
45.1	45.3	31.14	8.44	24.21
50.1	50.3	31.20	8.45	24.26
59.9	60.2	31.25	8.46	24.29
70.0	70.4	31.27	8.46	24.31
79.8	80.2	31.34	8.46	24.37
90.1	90.5	31.38	8.47	24.40
100.2	100.7	31.43	8.49	24.43
109.9	110.4	31.47	8.51	24.46
119.8	120.4	31.52	8.57	24.49
130.1	130.8	31.54	8.59	24.50
140.0	140.7	31.57	8.57	24.53
150.0	150.7	31.58	8.57	24.53
159.8	160.6	31.59	8.59	24.54
169.9	170.7	31.59	8.59	24.54
180.0	180.9	31.60	8.58	24.55
190.1	191.0	31.61	8.56	24.56
200.0	201.0	31.61	8.55	24.57
224.9	226.1	31.62	8.54	24.57
246.9	248.2	31.62	8.54	24.57



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 02 KNIGHT INLET, 1980

LAT N 50 38.10

DATE 18/11/80

TIME (PST) 1558

TAPE: U00975 -184

LONG W 126 25.20

PASS NO. 1

STN: KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.6	2.6	27.83	7.76	21.72
5.0	5.0	27.83	7.75	21.73
9.9	9.9	28.50	7.88	22.23
14.9	15.0	29.14	8.01	22.71
20.0	20.1	30.11	8.23	23.43
25.0	25.1	30.85	8.38	23.99
30.1	30.2	30.96	8.40	24.08
35.1	35.3	31.04	8.41	24.14
40.0	40.2	31.11	8.42	24.19
44.9	45.1	31.12	8.42	24.20
50.0	50.3	31.13	8.43	24.21
59.9	60.1	31.24	8.43	24.29
70.1	70.4	31.29	8.44	24.33
80.1	80.5	31.35	8.44	24.38
90.1	90.6	31.40	8.45	24.42
100.0	100.5	31.44	8.46	24.44
110.1	110.7	31.49	8.47	24.48
120.1	120.7	31.51	8.48	24.49
129.9	130.6	31.53	8.49	24.51
140.2	140.9	31.58	8.52	24.54
150.1	150.8	31.58	8.53	24.54
160.0	160.8	31.58	8.53	24.54
170.1	171.0	31.59	8.54	24.55
180.1	181.0	31.60	8.54	24.55
190.1	191.0	31.60	8.54	24.55
200.1	201.1	31.60	8.53	24.55
225.1	226.2	31.60	8.53	24.56
250.1	251.4	31.60	8.53	24.56
252.6	253.9	31.60	8.54	24.56



CRUISE NO. 81-1 (NO. 29)



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 51 2.30

DATE 29/ 7/81

TIME (PST) 0422

TAPE U00711 -108

LONG W 125 33.80

PASS NO. 25

STN KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.1	5.0	.55	6.71	.44
10.0	10.1	27.17	8.62	21.09
15.0	15.0	29.26	8.14	22.79
20.0	20.0	29.96	7.76	23.38
24.8	24.9	30.18	7.62	23.58
29.9	30.0	30.32	7.57	23.69
34.9	35.0	30.40	7.56	23.75
39.9	40.0	30.41	7.55	23.77
44.8	45.0	30.47	7.53	23.82
49.7	49.9	30.52	7.50	23.86
59.8	60.1	30.58	7.41	23.92
69.7	70.0	30.61	7.39	23.94
79.8	80.1	30.65	7.36	23.98
89.7	90.1	30.70	7.36	24.02
99.6	100.0	30.75	7.36	24.06
110.5	111.0	30.78	7.36	24.08
120.5	121.0	30.80	7.37	24.10
130.4	131.0	30.83	7.35	24.12
140.5	141.2	30.86	7.38	24.14
150.3	151.0	30.89	7.41	24.16
160.2	161.0	30.89	7.41	24.16
170.1	170.9	30.92	7.44	24.18
180.2	181.0	30.95	7.50	24.20
190.2	191.1	30.97	7.47	24.21
200.0	201.0	30.97	7.45	24.22
220.6	221.6	30.98	7.42	24.23



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 58.90  
 DATE 29/ 7/81  
 TIME (PST) 0341

TAPE U00711 -107  
 LONG W 125 33.20  
 PASS NO. 23  
 STN KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	.28	9.84	.02
2.0	2.0	.29	9.93	.02
5.2	5.1	.42	10.21	.10
10.0	10.0	25.99	9.03	20.11
14.9	15.0	28.81	8.31	22.41
19.9	20.0	29.55	7.96	23.04
24.9	25.0	30.01	7.71	23.43
29.9	30.0	30.20	7.61	23.59
34.9	35.0	30.30	7.58	23.68
39.8	40.0	30.45	7.53	23.80
44.9	45.1	30.51	7.49	23.85
49.8	50.0	30.54	7.46	23.88
59.6	59.9	30.59	7.41	23.93
69.7	70.0	30.63	7.36	23.96
79.7	80.0	30.68	7.39	24.00
89.6	90.1	30.72	7.38	24.03
99.6	100.1	30.75	7.37	24.06
109.5	110.0	30.78	7.43	24.07
120.4	121.0	30.82	7.48	24.10
130.6	131.2	30.85	7.48	24.12
140.4	141.1	30.88	7.60	24.13
150.3	151.0	30.92	7.68	24.15
160.2	160.9	30.93	7.59	24.17
170.2	171.0	30.92	7.44	24.18
180.2	181.0	30.95	7.56	24.19
190.1	191.0	30.94	7.42	24.20
200.1	201.0	30.96	7.43	24.21
224.7	225.8	31.00	7.40	24.25
249.8	251.0	31.06	7.46	24.28
274.7	276.1	31.07	7.47	24.30
300.5	302.0	31.11	7.50	24.32
323.5	325.1	31.15	7.54	24.34

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 52.40

DATE 29/ 7/81

TIME (PST) 0221

TAPE U00711 -106

LONG W 125 38.50

PASS NO. 21

STN KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	.97	11.62	.38
2.0	2.0	.96	11.63	.38
5.1	5.0	.97	11.61	.38
10.0	10.0	26.87	9.14	20.79
14.9	15.0	29.26	8.28	22.77
19.9	20.0	29.84	7.93	23.27
24.9	25.0	30.03	7.83	23.43
29.9	30.0	30.17	7.74	23.55
34.9	35.0	30.31	7.65	23.68
39.9	40.0	30.41	7.61	23.76
44.8	44.9	30.50	7.58	23.83
49.8	50.0	30.55	7.58	23.87
59.8	60.0	30.63	7.61	23.93
69.7	70.1	30.69	7.68	23.97
79.6	80.0	30.73	7.71	24.00
89.6	90.0	30.77	7.68	24.03
100.6	101.0	30.82	7.74	24.06
110.4	110.9	30.85	7.78	24.08
120.4	121.0	30.89	7.87	24.10
130.5	131.1	30.92	7.90	24.11
140.3	141.0	30.95	7.93	24.13
150.3	151.0	30.99	8.00	24.15
160.4	161.1	31.02	8.06	24.18
170.1	170.9	31.04	8.07	24.19
180.1	180.9	31.06	8.09	24.20
190.1	191.0	31.07	8.07	24.21
200.1	201.0	31.08	8.05	24.22
225.0	226.1	31.11	8.00	24.25
249.9	251.1	31.08	7.60	24.28
274.8	276.1	31.09	7.50	24.30
300.4	301.9	31.12	7.51	24.33
325.4	327.0	31.15	7.57	24.35
350.3	352.0	31.19	7.62	24.37
375.2	377.0	31.23	7.71	24.39
400.0	402.0	31.25	7.75	24.40
424.9	427.0	31.26	7.76	24.40
449.9	452.1	31.26	7.78	24.40
474.8	477.2	31.27	7.79	24.41
489.6	492.0	31.27	7.79	24.41

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 45.10  
 DATE 29/ 7/81  
 TIME (PST) 0105

TAPE U00711 -105  
 LONG W 125 41.00  
 PASS NO. 19  
 STN KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	2.27	14.29	1.04
2.1	2.0	2.28	14.28	1.05
5.1	5.0	2.49	14.13	1.24
10.0	10.0	26.22	9.55	20.22
15.0	15.0	28.63	8.76	22.21
19.9	20.0	29.53	8.36	22.97
24.9	25.0	29.77	8.24	23.17
29.9	30.0	30.12	8.04	23.47
34.8	35.0	30.36	7.90	23.68
39.7	39.9	30.41	7.86	23.73
44.8	45.0	30.46	7.82	23.77
49.9	50.1	30.51	7.75	23.82
59.8	60.1	30.58	7.68	23.88
69.7	70.0	30.69	7.83	23.95
79.7	80.1	30.76	7.91	23.99
89.6	90.0	30.81	8.00	24.02
100.5	100.9	30.85	8.05	24.04
110.5	111.0	30.89	8.10	24.07
120.5	121.0	30.92	8.11	24.08
130.3	130.9	30.95	8.15	24.11
140.4	141.1	30.98	8.19	24.13
150.3	151.0	31.00	8.22	24.14
160.3	161.1	31.02	8.22	24.15
170.2	171.0	31.05	8.25	24.17
180.2	181.0	31.07	8.25	24.19
190.2	191.1	31.08	8.24	24.20
200.0	200.9	31.10	8.21	24.21
225.0	226.1	31.12	8.10	24.24
249.8	251.0	31.15	8.03	24.27
274.7	276.0	31.16	7.93	24.30
299.6	301.1	31.17	7.84	24.32
325.4	327.0	31.17	7.73	24.34
350.2	352.0	31.19	7.69	24.36
375.1	376.9	31.22	7.72	24.37
400.0	401.9	31.25	7.79	24.39
425.1	427.2	31.27	7.81	24.40
449.8	452.0	31.27	7.81	24.40
474.7	477.0	31.27	7.82	24.40
499.5	502.0	31.27	7.82	24.41
504.3	506.8	31.27	7.82	24.40

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 41.90

DATE 29/ 7/81

TIME (PST) 0019

TAPE U00711 -104

LONG W 125 43.50

PASS NO. 17

STN SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	3.28	14.78	1.75
2.0	2.0	3.32	14.80	1.78
5.1	5.0	3.38	14.82	1.82
10.0	10.0	27.47	9.10	21.25
14.9	15.0	29.37	8.43	22.84
19.9	20.0	29.70	8.29	23.11
24.9	25.0	30.20	8.14	23.52
29.9	30.1	30.39	8.00	23.69
34.9	35.0	30.47	7.97	23.76
39.8	40.0	30.51	7.93	23.79
44.7	44.9	30.59	7.92	23.85
49.8	50.0	30.62	7.92	23.88
59.7	59.9	30.74	7.98	23.96
69.7	70.0	30.80	8.05	24.00
79.6	80.0	30.83	8.09	24.02
89.5	89.9	30.86	8.12	24.04
100.5	100.9	30.91	8.17	24.07
110.5	111.0	30.97	8.21	24.12
120.5	121.0	30.99	8.23	24.13
130.4	131.0	31.01	8.24	24.14
140.3	141.0	31.03	8.27	24.15
150.3	151.0	31.06	8.32	24.17
160.3	161.0	31.09	8.34	24.19
170.2	171.0	31.11	8.34	24.20
180.1	181.0	31.11	8.34	24.20
190.1	191.0	31.12	8.29	24.22
200.1	201.0	31.13	8.27	24.23
224.9	226.0	31.14	8.20	24.25
249.9	251.1	31.17	8.11	24.28
274.7	276.0	31.18	8.04	24.30
300.5	302.0	31.18	7.94	24.31
325.4	327.0	31.20	7.86	24.34
350.1	351.9	31.21	7.81	24.36
375.2	377.0	31.23	7.79	24.37
400.1	402.1	31.25	7.80	24.39
424.9	427.0	31.26	7.81	24.40
449.8	452.0	31.27	7.82	24.40
454.6	456.9	31.27	7.82	24.40

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 41.70  
 DATE 28/ 7/81  
 TIME (PST) 2344

TAPE U00711 -103  
 LONG W 125 46.60  
 PASS NO. 15  
 STN SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	3.62	15.11	1.96
2.0	2.0	3.62	15.11	1.96
5.1	5.0	3.69	15.15	2.00
10.0	10.0	25.05	9.98	19.25
14.9	14.9	29.60	8.39	23.02
19.9	20.0	29.93	8.29	23.29
25.0	25.1	30.30	8.10	23.61
29.9	30.0	30.36	8.12	23.65
34.9	35.1	30.39	8.11	23.67
39.8	40.0	30.51	8.09	23.77
44.8	45.0	30.61	8.13	23.85
49.8	50.0	30.65	8.09	23.87
59.8	60.1	30.69	8.04	23.92
69.7	70.0	30.78	8.11	23.98
79.6	80.0	30.85	8.16	24.02
89.6	90.1	30.88	8.19	24.04
99.6	100.0	30.93	8.24	24.08
110.5	111.0	30.96	8.27	24.09
120.4	120.9	31.00	8.34	24.11
130.4	131.0	31.05	8.43	24.15
140.4	141.1	31.06	8.42	24.15
150.3	151.0	31.09	8.40	24.18
160.3	161.0	31.09	8.40	24.18
170.1	170.9	31.11	8.39	24.19
180.2	181.1	31.11	8.39	24.20
190.1	191.0	31.14	8.36	24.22
200.1	201.0	31.15	8.32	24.24
225.0	226.0	31.16	8.26	24.25
249.8	251.0	31.17	8.17	24.27
274.8	276.1	31.17	8.11	24.28
299.6	301.1	31.18	8.02	24.31
325.4	327.0	31.20	7.93	24.33
350.4	352.1	31.21	7.86	24.35
375.1	377.0	31.22	7.84	24.36
389.7	391.6	31.22	7.83	24.36



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 41.60

DATE 28/ 7/81

TIME (PST) 2313

TAPE U00711 -102

LONG W 125 49.30

PASS NO. 13

STN TOM. ISL.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	3.87	15.18	2.14
2.1	2.0	3.92	15.22	2.17
5.1	5.0	8.26	14.69	5.59
10.0	10.0	25.71	9.92	19.77
15.0	15.0	28.69	8.88	22.24
19.9	19.9	29.71	8.52	23.08
24.9	25.0	29.95	8.33	23.30
29.9	30.0	30.08	8.27	23.41
34.9	35.0	30.26	8.17	23.57
39.9	40.1	30.37	8.13	23.65
44.8	45.0	30.43	8.12	23.71
49.8	50.0	30.48	8.11	23.75
59.8	60.0	30.57	8.11	23.81
69.7	70.0	30.64	8.06	23.87
79.7	80.0	30.71	8.10	23.93
89.7	90.1	30.77	8.12	23.97
99.6	100.0	30.82	8.15	24.00
109.5	110.0	30.86	8.20	24.03
120.4	121.0	30.88	8.23	24.04
130.3	130.9	30.98	8.35	24.10
140.3	141.0	31.02	8.44	24.12
150.3	151.0	31.02	8.39	24.13
160.2	161.0	31.05	8.45	24.14
170.2	171.0	31.08	8.45	24.17
180.2	181.1	31.10	8.44	24.18
190.1	191.0	31.12	8.38	24.20
200.0	201.0	31.13	8.35	24.22
225.0	226.0	31.15	8.35	24.23
249.8	251.0	31.17	8.24	24.27
274.8	276.1	31.18	8.16	24.28
299.6	301.1	31.18	8.05	24.30
325.4	327.0	31.19	7.96	24.32
341.1	342.8	31.20	7.91	24.33

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 41.10  
 DATE 28/ 7/81  
 TIME (PST) 2240

TAPE UDC711 -101  
 LONG W 125 51.90  
 PASS NO. 11  
 STN MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	4.97	15.54	2.92
2.0	2.0	4.69	15.54	2.71
5.1	5.0	8.74	14.76	5.94
10.0	10.0	27.68	9.24	21.40
15.0	15.0	28.90	8.89	22.40
19.9	20.0	29.44	8.75	22.84
24.9	25.0	29.82	8.42	23.19
29.9	30.0	30.04	8.42	23.36
34.8	35.0	30.13	8.41	23.43
39.9	40.0	30.25	8.42	23.52
44.9	45.0	30.37	8.28	23.64
49.8	50.0	30.44	8.21	23.70
59.7	60.0	30.63	8.22	23.85
69.7	70.0	30.70	8.24	23.90
79.7	80.0	30.77	8.29	23.94
89.5	89.9	30.81	8.21	23.99
100.4	100.9	30.86	8.27	24.02
109.5	110.0	30.91	8.40	24.04
120.5	121.0	30.95	8.43	24.06
130.4	131.0	30.97	8.41	24.08
140.3	141.0	30.98	8.40	24.09
150.2	150.9	30.99	8.39	24.10
160.3	161.0	31.01	8.40	24.12
170.2	171.0	31.05	8.42	24.14
180.2	181.0	31.08	8.42	24.16
190.1	191.0	31.09	8.42	24.17
200.0	200.9	31.10	8.42	24.19
224.9	226.0	31.14	8.39	24.22
249.9	251.1	31.18	8.34	24.26
274.6	276.0	31.20	8.27	24.28
299.5	301.0	31.19	8.18	24.29
325.4	327.0	31.19	8.02	24.31
329.3	330.9	31.19	8.01	24.31

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 40.70  
 DATE 28/ 7/81  
 TIME (PST) 2207

TAPE U00711 -100  
 LONG W 125 54.40  
 PASS NO. 9  
 STN ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	4.83	15.53	2.81
2.0	1.9	4.87	15.55	2.84
5.1	5.0	5.79	15.75	3.51
10.0	10.0	27.30	9.37	21.08
15.0	15.0	29.22	8.77	22.66
20.0	20.1	29.65	8.64	23.02
25.0	25.1	30.17	8.49	23.45
29.9	30.0	30.34	8.56	23.57
34.8	35.0	30.45	8.57	23.65
39.8	40.0	30.53	8.54	23.72
44.8	45.0	30.62	8.55	23.79
49.8	50.0	30.64	8.55	23.81
59.7	60.0	30.73	8.53	23.88
69.7	70.0	30.76	8.51	23.91
79.6	80.0	30.82	8.51	23.95
89.6	90.0	30.85	8.50	23.97
99.6	100.0	30.87	8.50	23.99
109.5	110.0	30.91	8.48	24.03
120.4	120.9	30.96	8.43	24.07
130.4	131.0	30.99	8.42	24.09
140.3	141.0	31.01	8.38	24.12
150.2	150.9	31.01	8.38	24.12
160.3	161.0	31.02	8.41	24.12
170.2	171.0	31.04	8.45	24.13
180.2	181.0	31.06	8.49	24.15
190.1	191.0	31.07	8.49	24.15
200.0	201.0	31.08	8.49	24.16
224.9	225.9	31.11	8.48	24.19
249.8	251.0	31.15	8.44	24.22
274.7	276.0	31.18	8.42	24.25
299.5	300.9	31.20	8.33	24.27
325.5	327.0	31.22	8.26	24.30
350.3	352.0	31.21	8.10	24.31
375.2	377.0	31.20	8.06	24.32
398.0	399.9	31.19	7.97	24.32

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 40.60  
 DATE 28/ 7/81  
 TIME (PST) 2136

TAPE U00711 -099  
 LONG W 125 57.20  
 PASS NO. 7  
 STN CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	5.03	15.51	2.97
2.1	2.0	5.03	15.51	2.97
5.0	5.0	6.28	15.53	3.93
10.0	10.0	27.79	9.42	21.46
15.0	15.0	29.22	8.96	22.64
19.9	20.0	29.74	8.81	23.06
24.9	25.0	29.91	8.78	23.20
29.9	30.0	29.99	8.75	23.27
34.8	35.0	30.05	8.72	23.32
39.8	40.0	30.36	8.63	23.58
44.8	45.0	30.41	8.62	23.61
49.8	50.0	30.47	8.61	23.67
59.8	60.1	30.69	8.57	23.84
69.7	70.0	30.76	8.56	23.90
79.6	80.0	30.84	8.55	23.96
89.6	90.0	30.90	8.54	24.01
99.6	100.0	30.96	8.53	24.06
110.5	111.0	31.02	8.52	24.11
120.4	121.0	31.04	8.51	24.12
130.4	131.0	31.06	8.50	24.14
140.3	141.0	31.08	8.49	24.16
150.3	151.0	31.08	8.50	24.16
160.3	161.0	31.09	8.49	24.17
170.2	171.0	31.10	8.47	24.18
180.1	181.0	31.11	8.46	24.19
190.1	191.0	31.12	8.45	24.20
200.0	201.0	31.13	8.44	24.20
225.0	226.0	31.15	8.41	24.22
249.8	251.0	31.20	8.19	24.29
274.7	276.0	31.19	8.08	24.30
299.5	301.0	31.19	8.01	24.31
325.4	327.0	31.19	7.99	24.32
343.4	345.1	31.19	7.99	24.32

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 39.90

DATE 28/ 7/81

TIME (PST) 2056

TAPE U00711 -098

LONG W 126 4.20

PASS NO. 5

STN KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	8.34	15.23	5.56
2.0	2.0	8.14	15.29	5.39
5.1	5.0	19.70	11.86	14.83
10.0	10.0	29.03	9.12	22.47
15.0	15.0	29.95	8.79	23.23
19.9	20.0	30.52	8.60	23.70
24.9	25.0	30.69	8.55	23.85
29.9	30.0	30.75	8.53	23.90
34.9	35.0	30.81	8.52	23.95
39.9	40.1	30.90	8.51	24.02
44.9	45.1	31.00	8.56	24.08
49.8	50.0	31.09	8.56	24.15
59.7	60.0	31.23	8.64	24.25
69.6	69.9	31.34	8.64	24.33
79.6	80.0	31.50	8.59	24.47
89.6	90.0	31.52	8.58	24.48
99.6	100.1	31.66	8.55	24.60
110.5	111.1	31.72	8.53	24.65
120.4	121.0	31.74	8.52	24.66
130.3	131.0	31.76	8.52	24.69
140.3	141.0	31.76	8.52	24.69
150.2	151.0	31.77	8.52	24.69
160.2	161.0	31.79	8.51	24.71
170.1	171.0	31.80	8.51	24.72
179.9	180.8	31.82	8.51	24.73



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 39.20  
 DATE 28/ 7/81  
 TIME (PST) 2007

TAPE U00711 -097  
 LONG W 126 12.50  
 PASS NO. 3  
 STN MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.5	.5	11.84	15.15	8.24
2.0	1.9	11.97	15.08	8.36
5.0	5.0	17.27	13.35	12.71
10.0	10.0	27.37	9.92	21.05
15.0	15.0	29.43	9.18	22.77
19.9	20.0	30.19	8.90	23.41
24.9	25.0	30.39	8.82	23.57
29.9	30.0	30.62	8.80	23.75
34.9	35.1	30.68	8.77	23.80
39.8	40.0	30.74	8.59	23.88
44.9	45.1	30.85	8.51	23.98
49.8	50.0	30.92	8.63	24.01
59.7	60.0	31.02	8.68	24.08
69.7	70.0	31.21	8.67	24.24
79.7	80.0	31.36	8.65	24.35
89.5	90.0	31.46	8.62	24.43
100.5	101.0	31.56	8.58	24.52
110.5	111.0	31.62	8.57	24.57
120.4	121.0	31.71	8.54	24.64
130.3	131.0	31.75	8.53	24.67
140.2	140.9	31.80	8.51	24.72
150.2	151.0	31.84	8.50	24.75
160.2	161.1	31.88	8.49	24.78
170.1	171.0	31.90	8.48	24.80
180.0	181.0	31.92	8.47	24.81
190.0	191.0	31.92	8.47	24.82
196.9	197.9	31.92	8.47	24.82

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 38.50

DATE 28/ 7/81

TIME (PST) 1920

TAPE U00711 -096

LONG W 126 17.30

PASS NO. 1

STN KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	22.85	12.81	17.09
2.0	2.0	22.86	12.77	17.11
5.1	5.1	22.99	12.66	17.23
9.9	9.9	26.10	11.07	19.89
14.9	14.9	29.87	9.08	23.13
20.0	20.1	30.13	8.95	23.35
24.9	25.0	30.37	8.81	23.56
29.9	30.0	30.51	8.90	23.65
35.0	35.2	30.67	8.90	23.78
39.9	40.1	30.73	8.86	23.83
44.8	45.0	30.85	8.89	23.92
49.8	50.1	30.95	8.86	24.00
59.8	60.1	31.11	8.77	24.14
69.7	70.0	31.22	8.71	24.23
79.6	80.0	31.41	8.64	24.39
90.5	90.9	31.52	8.60	24.48
99.5	100.0	31.56	8.59	24.52
110.5	111.1	31.63	8.57	24.58
120.3	120.9	31.71	8.54	24.64
130.4	131.1	31.72	8.54	24.65
140.2	140.9	31.79	8.51	24.71
150.2	151.0	31.81	8.50	24.72
160.2	161.0	31.86	8.48	24.77
170.1	171.0	31.92	8.46	24.82
180.0	180.9	31.96	8.44	24.85
190.1	191.1	31.96	8.44	24.85
200.0	201.0	31.98	8.45	24.86
224.9	226.1	32.02	8.42	24.90
241.4	242.8	32.04	8.41	24.92



CRUISE NO. 81-1 (NO. 30)





## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 51 2.30

DATE 4/ 8/81

TIME (PST) 1214

TAPE U00711 -109

LONG W 125 33.80

PASS NO.403

STN KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	.33	8.48	.17
1.9	1.9	.25	8.33	.11
5.0	5.0	.97	7.64	.73
10.0	10.0	27.96	8.62	21.70
15.0	15.0	29.15	8.22	22.69
20.0	20.0	29.72	7.91	23.18
25.0	25.1	29.98	7.73	23.41
29.9	30.0	30.09	7.67	23.50
34.9	35.1	30.24	7.60	23.63
39.8	40.0	30.36	7.57	23.72
44.8	45.0	30.40	7.55	23.76
49.7	50.0	30.45	7.52	23.80
59.8	60.0	30.57	7.42	23.91
69.7	70.0	30.62	7.37	23.95
79.7	80.0	30.68	7.36	24.00
89.6	90.0	30.72	7.35	24.03
99.6	100.0	30.75	7.37	24.05
109.5	110.0	30.79	7.37	24.08
120.5	121.0	30.82	7.38	24.11
130.4	131.1	30.85	7.40	24.13
140.3	141.0	30.90	7.54	24.15
150.3	151.0	30.91	7.49	24.16
160.2	161.0	30.92	7.48	24.18
170.2	171.0	30.94	7.45	24.20
180.2	181.1	30.97	7.51	24.21
190.2	191.1	30.97	7.43	24.22
200.0	201.0	30.99	7.43	24.23
225.0	226.0	31.02	7.48	24.25
238.7	239.9	31.02	7.45	24.26

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 58.90  
 DATE 4/ 8/81  
 TIME (PST) 1251

TAPE U00711 -110  
 LONG W 125 33.20  
 PASS NO.405  
 STN KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	.41	9.99	.11
2.0	2.0	.48	10.02	.16
5.1	5.0	.81	7.65	.60
10.0	10.0	28.21	8.70	21.89
15.0	15.0	29.40	8.15	22.89
20.0	20.0	29.75	7.92	23.20
25.0	25.1	29.97	7.75	23.40
30.0	30.1	30.13	7.65	23.53
34.9	35.0	30.26	7.60	23.64
39.9	40.0	30.34	7.57	23.71
44.8	44.9	30.37	7.57	23.73
49.8	50.0	30.46	7.54	23.81
59.7	59.9	30.56	7.45	23.89
69.7	70.1	30.63	7.36	23.96
79.6	80.0	30.67	7.34	24.00
89.6	90.1	30.72	7.34	24.03
99.5	100.0	30.76	7.39	24.06
110.5	111.0	30.80	7.45	24.09
120.4	120.9	30.83	7.45	24.11
130.4	131.0	30.88	7.56	24.13
140.3	140.9	30.91	7.58	24.15
150.2	150.9	30.94	7.69	24.16
160.2	161.0	30.91	7.42	24.18
170.2	171.0	30.95	7.57	24.19
180.1	181.0	30.97	7.54	24.20
190.1	191.0	30.97	7.49	24.22
200.0	200.9	30.99	7.47	24.23
225.0	226.0	31.02	7.45	24.25
249.8	251.0	31.04	7.44	24.28
274.7	276.0	31.08	7.46	24.30
299.6	301.0	31.11	7.50	24.32
325.3	326.9	31.14	7.54	24.34
325.3	326.9	31.14	7.54	24.34

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 54.30

DATE 4/ 8/81

TIME (PST) 1341

TAPE U00711 -111

LONG W 125 32.80

PASS NO.407

STN KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	.46	10.63	.09
2.0	1.9	.50	10.03	.18
5.1	5.0	1.20	9.51	.77
10.0	10.0	27.46	9.07	21.25
14.9	14.9	28.99	8.41	22.54
19.9	20.0	29.50	8.10	22.98
24.9	25.0	29.92	7.84	23.34
29.9	30.0	30.19	7.70	23.58
34.9	35.0	30.31	7.62	23.68
39.8	40.0	30.39	7.59	23.74
44.9	45.1	30.46	7.54	23.81
49.8	50.0	30.50	7.51	23.84
59.8	60.1	30.58	7.43	23.91
69.6	70.0	30.64	7.40	23.96
79.6	80.0	30.70	7.47	24.01
89.5	89.9	30.75	7.49	24.04
99.6	100.0	30.79	7.46	24.07
109.6	110.1	30.82	7.53	24.09
120.4	121.0	30.85	7.47	24.12
130.3	130.9	30.87	7.49	24.13
140.3	141.0	30.92	7.69	24.15
150.4	151.1	30.94	7.66	24.17
160.4	161.1	30.98	7.81	24.17
170.2	171.0	31.03	7.93	24.20
180.2	181.0	31.05	7.95	24.21
190.1	191.0	31.06	7.95	24.22
200.1	201.0	31.07	7.95	24.22
224.9	226.0	31.04	7.58	24.26
249.9	251.1	31.06	7.51	24.28
274.6	276.0	31.09	7.51	24.30
299.6	301.1	31.11	7.51	24.32
325.4	327.0	31.15	7.55	24.34
350.2	351.9	31.18	7.62	24.36
375.1	377.0	31.22	7.67	24.38
400.1	402.0	31.24	7.72	24.39
414.8	416.8	31.24	7.74	24.39

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 52.40  
 DATE 4/ 8/81  
 TIME (PST) 1420

TAPE U00711 -112  
 LONG W 125 38.50  
 PASS NO.409  
 STN KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	1.19	10.40	.68
2.0	1.9	1.82	9.69	1.24
5.1	5.0	2.50	9.36	1.80
10.0	10.0	27.34	9.09	21.15
14.9	15.0	28.87	8.55	22.42
19.9	20.0	29.52	8.30	22.96
24.9	25.0	29.85	8.00	23.26
29.9	30.0	30.09	7.78	23.49
34.8	35.0	30.23	7.69	23.61
39.8	40.0	30.36	7.63	23.71
44.9	45.1	30.43	7.59	23.78
49.8	50.0	30.48	7.56	23.82
59.8	60.0	30.55	7.54	23.88
69.7	70.0	30.64	7.53	23.95
79.6	80.0	30.71	7.60	23.99
89.6	90.0	30.76	7.61	24.03
99.6	100.0	30.83	7.75	24.07
109.6	110.1	30.86	7.78	24.09
120.5	121.0	30.91	7.90	24.11
130.5	131.1	30.95	7.95	24.13
140.4	141.1	30.97	7.97	24.15
150.4	151.1	30.97	7.88	24.16
160.2	160.9	31.02	8.03	24.18
170.1	170.9	31.04	8.05	24.19
180.2	181.0	31.06	8.05	24.20
190.1	191.0	31.08	8.10	24.21
200.0	201.0	31.09	8.07	24.22
225.0	226.1	31.09	7.89	24.25
249.9	251.1	31.10	7.73	24.28
274.6	276.0	31.11	7.64	24.30
299.6	301.1	31.13	7.64	24.32
325.4	327.0	31.14	7.56	24.34
350.3	352.0	31.18	7.61	24.36
375.1	376.9	31.22	7.69	24.38
400.0	402.0	31.25	7.76	24.39
424.9	427.0	31.26	7.78	24.40
449.8	452.0	31.26	7.77	24.40
474.7	477.0	31.26	7.78	24.40
474.7	477.0	31.26	7.78	24.40

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 47.90

DATE 4/ 8/81

TIME (PST) 1516

TAPE U00711 -113

LONG W 125 37.00

PASS NO.411

STN KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	1.10	12.67	.36
2.0	2.0	1.13	12.65	.39
5.1	5.0	2.10	12.19	1.20
10.0	10.0	27.54	8.90	21.34
15.0	15.0	29.01	8.54	22.54
19.9	20.0	29.85	8.15	23.25
24.9	25.0	30.06	8.01	23.43
29.9	30.0	30.22	7.91	23.57
34.9	35.0	30.29	7.86	23.63
39.8	40.0	30.36	7.76	23.70
44.8	45.0	30.46	7.59	23.80
49.8	50.0	30.49	7.58	23.82
59.8	60.0	30.60	7.60	23.91
69.7	70.1	30.69	7.67	23.97
79.7	80.1	30.76	7.77	24.01
89.6	90.0	30.81	7.84	24.04
99.6	100.1	30.84	7.80	24.07
110.5	111.0	30.91	7.96	24.10
120.5	121.0	30.95	8.08	24.11
130.4	131.0	30.99	8.13	24.14
140.4	141.1	31.01	8.12	24.16
150.3	151.0	31.03	8.12	24.17
160.3	161.0	31.05	8.13	24.19
170.3	171.1	31.07	8.16	24.20
180.2	181.1	31.08	8.14	24.21
190.1	191.0	31.10	8.13	24.22
200.0	200.9	31.11	8.10	24.24
225.0	226.0	31.14	8.12	24.26
249.9	251.1	31.16	8.01	24.29
274.7	276.0	31.16	7.91	24.30
299.5	301.0	31.16	7.76	24.33
325.4	327.0	31.16	7.66	24.34
350.4	352.1	31.19	7.67	24.36
375.1	377.0	31.22	7.72	24.38
400.1	402.0	31.25	7.77	24.39
424.9	427.0	31.26	7.79	24.40
449.8	452.0	31.26	7.79	24.40
474.7	477.1	31.27	7.79	24.40
499.6	502.1	31.27	7.80	24.40
509.5	512.0	31.27	7.80	24.40



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 45.10  
 DATE 4/ 8/81  
 TIME (PST) 1603

TAPE U00711 -114  
 LONG W 125 41.00  
 PASS NO.413  
 STN KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	1.50	14.23	.46
2.0	2.0	3.06	12.65	1.88
5.1	5.1	15.05	10.51	11.43
10.0	10.0	28.50	8.79	22.10
14.9	15.0	29.28	8.51	22.75
20.0	20.0	29.36	8.47	22.82
24.9	25.0	29.91	8.25	23.28
30.0	30.1	30.22	8.20	23.53
34.9	35.1	30.27	8.07	23.59
39.8	40.0	30.42	8.01	23.71
44.8	45.0	30.43	7.92	23.73
49.8	50.0	30.46	7.88	23.76
59.7	60.0	30.52	7.69	23.83
69.7	70.0	30.61	7.70	23.90
79.7	80.0	30.70	7.72	23.97
89.6	90.0	30.78	7.87	24.01
100.5	100.9	30.83	7.94	24.04
109.5	110.0	30.87	8.01	24.06
120.4	120.9	30.92	8.07	24.09
130.4	131.0	30.95	8.10	24.11
140.3	141.0	30.99	8.15	24.14
150.4	151.1	31.03	8.17	24.16
160.3	161.0	31.05	8.19	24.17
170.2	171.0	31.07	8.22	24.19
180.2	181.1	31.08	8.21	24.20
190.1	191.0	31.09	8.17	24.21
200.0	201.0	31.11	8.23	24.22
225.0	226.0	31.14	8.24	24.24
249.8	251.0	31.16	8.15	24.27
274.6	275.9	31.18	8.09	24.29
299.6	301.0	31.19	8.01	24.31
325.4	327.0	31.19	7.90	24.33
350.3	352.0	31.20	7.70	24.36
375.2	377.0	31.23	7.74	24.38
400.0	401.9	31.25	7.78	24.39
424.9	427.0	31.26	7.79	24.40
449.8	452.0	31.27	7.80	24.40
474.7	477.0	31.27	7.81	24.40
499.6	502.0	31.27	7.81	24.40
509.4	511.9	31.27	7.81	24.40

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 41.90

DATE 4/ 8/81

TIME (PST) 1700

TAPE U00711 -115

LONG W 125 43.50

PASS NO.415

STN SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	4.61	12.90	3.04
2.0	1.9	5.84	12.74	4.02
5.0	5.0	9.34	11.82	6.84
10.0	10.0	28.95	8.74	22.46
14.9	14.9	29.44	8.64	22.86
19.9	20.0	30.21	8.38	23.49
24.8	24.9	30.30	8.36	23.57
29.9	30.0	30.44	8.32	23.68
34.9	35.0	30.52	8.34	23.74
39.8	40.0	30.54	7.90	23.82
44.9	45.1	30.53	7.86	23.82
49.8	50.0	30.65	7.84	23.91
59.8	60.0	30.72	7.86	23.97
69.7	70.0	30.76	7.89	23.99
79.7	80.0	30.81	7.92	24.03
89.5	89.9	30.88	8.02	24.06
99.5	100.0	30.94	8.11	24.10
110.5	111.0	30.97	8.14	24.12
120.4	121.0	31.01	8.17	24.15
130.4	131.0	31.03	8.20	24.16
140.4	141.1	31.06	8.28	24.18
150.2	150.9	31.08	8.31	24.19
160.2	161.0	31.09	8.31	24.19
170.2	171.0	31.12	8.31	24.21
180.2	181.0	31.11	8.31	24.21
190.1	191.0	31.12	8.32	24.21
200.1	201.1	31.14	8.29	24.23
224.9	226.0	31.17	8.21	24.27
249.8	251.0	31.19	8.18	24.28
274.7	276.0	31.21	8.17	24.30
299.6	301.0	31.21	8.09	24.32
325.4	326.9	31.21	7.94	24.33
350.4	352.1	31.21	7.89	24.35
375.2	377.0	31.23	7.80	24.37
400.1	402.0	31.25	7.80	24.39
424.9	427.0	31.26	7.81	24.39
446.8	449.0	31.27	7.81	24.40

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 41.70  
 DATE 4/ 8/81  
 TIME (PST) 1742

TAPE U00711 -116  
 LONG W 125 46.60  
 PASS NO.417  
 STN SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	5.18	13.68	3.38
1.9	1.9	9.09	12.40	6.57
5.1	5.1	21.89	10.00	16.80
10.0	10.0	25.98	9.37	20.06
14.9	15.0	28.26	8.90	21.90
19.9	19.9	29.81	8.57	23.16
25.0	25.1	30.18	8.39	23.47
29.9	30.0	30.36	8.43	23.60
34.9	35.1	30.57	8.31	23.79
39.8	40.0	30.60	8.27	23.82
44.8	45.0	30.64	8.19	23.86
49.8	50.0	30.69	8.12	23.91
59.8	60.1	30.71	8.13	23.92
69.7	70.0	30.74	7.96	23.97
79.6	80.0	30.88	8.09	24.06
89.6	90.0	30.88	8.06	24.06
99.5	100.0	30.89	8.07	24.07
110.5	111.0	30.92	8.11	24.09
120.5	121.1	30.99	8.20	24.13
130.4	131.0	31.00	8.21	24.14
140.3	141.0	31.02	8.25	24.15
150.3	151.0	31.04	8.30	24.16
160.3	161.1	31.07	8.33	24.17
170.2	171.0	31.13	8.33	24.22
180.2	181.0	31.14	8.34	24.23
190.1	191.0	31.16	8.37	24.24
200.1	201.1	31.17	8.37	24.24
224.9	226.0	31.18	8.37	24.26
249.8	251.0	31.20	8.34	24.28
274.7	276.0	31.22	8.34	24.29
300.5	302.0	31.26	8.32	24.32
325.4	326.9	31.25	8.14	24.34
350.3	352.0	31.24	8.08	24.34
375.1	376.9	31.24	7.99	24.35
400.0	401.9	31.24	7.92	24.36
400.0	401.9	31.24	7.92	24.36

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 41.60

DATE 4/ 8/81

TIME (PST) 1811

TAPE U00711 -117

LONG W 125 49.30

PASS NO.419

STN TOM. ISL.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.4	.4	6.75	13.06	4.68
2.0	2.0	11.57	11.81	8.56
5.0	5.0	25.59	9.53	19.74
9.9	10.0	28.83	8.89	22.34
14.9	15.0	29.60	8.73	22.97
19.9	20.0	29.89	8.65	23.21
24.9	25.0	30.01	8.62	23.30
29.9	30.0	30.14	8.60	23.41
34.9	35.0	30.22	8.53	23.48
39.8	40.0	30.29	8.59	23.53
44.8	45.0	30.40	8.54	23.62
49.8	50.0	30.53	8.40	23.74
59.7	60.0	30.60	8.32	23.81
69.7	70.0	30.61	8.17	23.83
79.6	80.0	30.64	7.94	23.90
89.6	90.0	30.76	8.04	23.97
99.5	100.0	30.83	8.04	24.03
110.5	111.0	30.84	8.04	24.03
119.5	120.1	30.89	8.12	24.06
130.3	130.9	30.96	8.16	24.11
140.4	141.0	30.99	8.21	24.13
150.3	151.1	31.00	8.23	24.13
160.2	160.9	31.04	8.29	24.15
170.2	171.0	31.06	8.30	24.17
180.1	181.0	31.07	8.32	24.18
190.2	191.1	31.10	8.35	24.20
200.1	201.0	31.12	8.36	24.20
224.9	226.0	31.19	8.42	24.25
249.8	251.0	31.21	8.41	24.27
274.7	276.0	31.21	8.24	24.30
299.6	301.0	31.25	8.30	24.32
325.5	327.0	31.27	8.28	24.33
331.9	333.5	31.26	8.28	24.33

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 41.10  
 DATE 4/ 8/81  
 TIME (PST) 1845

TAPE U00711 -118  
 LONG W 125 51.90  
 PASS NO.421  
 STN MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	5.35	14.00	3.46
2.0	1.9	5.73	13.85	3.77
5.1	5.0	19.02	10.65	14.48
10.0	10.0	29.03	8.93	22.49
15.0	15.0	29.84	8.71	23.15
19.9	19.9	29.90	8.68	23.21
25.0	25.1	30.20	8.62	23.45
29.8	29.9	30.27	8.57	23.51
34.8	35.0	30.41	8.51	23.63
39.9	40.1	30.43	8.50	23.65
44.8	45.0	30.51	8.48	23.71
49.7	49.9	30.57	8.47	23.76
59.8	60.0	30.66	8.43	23.84
69.7	70.0	30.68	8.46	23.85
79.6	80.0	30.75	8.46	23.90
89.6	90.0	30.82	8.43	23.96
99.5	99.9	30.87	8.37	24.01
110.4	110.9	30.89	8.38	24.03
120.4	121.0	30.91	8.32	24.05
130.4	131.1	30.96	8.24	24.10
140.3	141.0	30.98	8.23	24.12
150.3	151.0	31.02	8.30	24.14
160.3	161.0	31.05	8.35	24.15
170.1	170.9	31.04	8.31	24.16
180.1	181.0	31.06	8.33	24.16
190.0	190.9	31.08	8.37	24.17
200.0	201.0	31.09	8.40	24.18
224.9	226.0	31.14	8.45	24.21
249.8	251.0	31.17	8.45	24.23
274.7	276.0	31.22	8.43	24.27
299.5	301.0	31.22	8.30	24.29
325.4	327.0	31.24	8.28	24.32
341.1	342.7	31.27	8.33	24.32



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 40.70

DATE 4/ 8/81

TIME (PST) 1914

TAPE U00711 -119

LONG W 125 54.40

PASS NO.423

STN ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	3.40	14.03	1.95
2.0	1.9	6.08	13.32	4.12
5.1	5.0	15.32	11.62	11.49
10.0	10.0	28.01	9.24	21.66
15.0	15.0	28.89	8.99	22.37
20.0	20.0	29.80	8.77	23.12
24.9	25.0	30.12	8.64	23.39
29.9	30.1	30.26	8.53	23.51
34.8	35.0	30.37	8.43	23.61
39.9	40.0	30.41	8.43	23.64
44.8	45.0	30.51	8.42	23.72
49.9	50.1	30.53	8.40	23.74
59.7	60.0	30.73	8.33	23.91
69.7	70.0	30.83	8.23	24.00
79.6	80.0	30.83	8.08	24.02
89.6	90.0	30.88	8.13	24.05
99.6	100.1	30.91	8.15	24.07
110.5	111.0	30.95	8.22	24.10
120.5	121.0	30.98	8.25	24.11
130.4	131.1	31.02	8.32	24.13
140.4	141.0	31.05	8.35	24.15
150.3	151.0	31.07	8.40	24.16
160.3	161.0	31.10	8.45	24.18
170.2	171.0	31.12	8.45	24.20
180.1	181.0	31.15	8.45	24.22
190.1	191.0	31.19	8.44	24.25
200.1	201.1	31.20	8.43	24.26
224.9	226.0	31.22	8.43	24.28
249.8	251.0	31.24	8.43	24.29
274.6	276.0	31.24	8.43	24.29
299.5	300.9	31.24	8.41	24.30
325.4	327.0	31.25	8.36	24.31
350.2	351.9	31.24	8.26	24.31
375.2	377.0	31.26	8.31	24.32
393.7	395.6	31.26	8.29	24.33

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 40.60  
 DATE 4/ 8/81  
 TIME (PST) 1955

TAPE U00711 -120  
 LONG W 125 57.20  
 PASS NO.425  
 STN CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	4.57	13.37	2.95
2.0	2.0	6.09	12.71	4.21
5.2	5.2	23.88	10.01	18.33
10.0	10.0	27.24	9.41	21.03
15.0	15.0	29.27	8.95	22.68
19.9	20.0	29.70	8.83	23.03
24.9	25.0	30.10	8.70	23.36
29.9	30.0	30.33	8.62	23.55
34.8	35.0	30.48	8.58	23.68
39.9	40.0	30.55	8.56	23.73
44.8	45.0	30.64	8.53	23.81
49.7	50.0	30.79	8.50	23.93
59.7	59.9	30.96	8.46	24.07
69.7	70.0	30.96	8.46	24.07
79.6	80.0	30.98	8.44	24.09
89.5	89.9	30.99	8.45	24.09
99.6	100.0	30.98	8.45	24.09
109.5	110.0	30.98	8.44	24.09
120.4	121.0	31.00	8.44	24.10
130.4	131.0	31.04	8.45	24.13
140.4	141.0	31.11	8.45	24.19
150.2	151.0	31.16	8.45	24.23
160.2	161.0	31.19	8.44	24.25
170.2	171.0	31.20	8.44	24.26
180.1	181.0	31.21	8.43	24.27
190.1	191.0	31.22	8.42	24.28
200.1	201.0	31.22	8.42	24.28
224.9	226.0	31.26	8.40	24.31
249.7	251.0	31.26	8.40	24.31
274.6	276.0	31.27	8.40	24.32
299.6	301.0	31.28	8.40	24.33
325.4	327.0	31.28	8.40	24.33
347.9	349.6	31.29	8.41	24.33

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 40.60  
 DATE 4/ 8/81  
 TIME (PST) 2012

TAPE U00711 -121  
 LONG W 125 59.50  
 PASS NO.427  
 STN HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	3.25	14.35	1.79
2.0	2.0	3.38	14.13	1.92
5.1	5.0	15.38	11.48	11.55
10.0	10.0	28.20	9.12	21.82
15.0	15.0	29.52	8.81	22.89
19.9	20.0	30.47	8.49	23.68
24.9	25.0	30.66	8.42	23.84
29.9	30.0	30.82	8.37	23.97
34.8	35.0	30.85	8.31	24.01
39.8	39.9	30.86	8.29	24.02
44.8	45.0	30.90	8.20	24.06
49.8	50.0	30.99	8.39	24.10
59.7	60.0	31.06	8.43	24.15
69.8	70.1	31.09	8.43	24.18

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO D1 KNIGHT INLET, 1981  
 LAT N 50 39.90  
 DATE 4/ 8/81  
 TIME (PST) 2036

TAPE U00711 -122  
 LONG W 126 4.20  
 PASS NO.429  
 STN KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	3.50	14.32	1.99
2.0	2.0	5.04	13.76	3.26
5.0	5.0	20.05	11.08	15.21
10.0	10.1	28.44	9.33	21.98
15.0	15.0	29.77	9.02	23.06
19.9	20.0	30.13	8.97	23.35
24.9	25.0	30.34	8.81	23.53
29.9	30.1	30.49	8.72	23.66
34.8	35.0	30.52	8.65	23.70
39.8	40.0	30.63	8.48	23.81
44.8	45.0	30.66	8.45	23.84
49.9	50.1	30.70	8.43	23.87
59.8	60.0	30.83	8.44	23.97
69.7	70.1	30.98	8.41	24.09
79.6	80.0	31.15	8.54	24.21
89.6	90.0	31.35	8.56	24.36
100.5	101.0	31.44	8.55	24.43
110.5	111.0	31.52	8.54	24.49
120.4	121.0	31.68	8.51	24.62
130.3	131.0	31.74	8.50	24.67
140.3	141.0	31.75	8.50	24.68
150.2	151.0	31.76	8.50	24.68
160.2	161.0	31.77	8.50	24.69
170.1	171.0	31.80	8.49	24.72
180.1	181.0	31.81	8.49	24.73
190.0	191.0	31.84	8.48	24.76
191.0	192.0	31.85	8.48	24.76

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 39.20  
 DATE 4/ 8/81  
 TIME (PST) 2118

TAPE U00711 -123  
 LONG W 126 12.50  
 PASS NO.431  
 STN MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	5.88	15.15	3.69
2.1	2.0	5.93	15.12	3.72
5.1	5.0	7.81	14.31	5.30
10.0	10.0	28.44	9.39	21.97
14.9	15.0	30.41	8.68	23.61
19.9	20.0	30.58	8.61	23.75
24.9	25.0	30.73	8.48	23.88
29.9	30.0	30.84	8.44	23.98
34.8	35.0	30.93	8.46	24.05
39.8	40.0	30.98	8.47	24.08
44.8	45.0	30.98	8.48	24.08
49.8	50.0	31.01	8.52	24.10
59.7	60.0	31.25	8.60	24.27
69.7	70.0	31.37	8.59	24.37
79.6	80.0	31.44	8.58	24.42
89.5	89.9	31.62	8.54	24.57
100.5	101.0	31.73	8.52	24.66
110.4	111.0	31.78	8.48	24.71
120.3	120.9	31.80	8.48	24.72
130.3	131.0	31.81	8.47	24.73
140.2	141.0	31.85	8.46	24.76
150.2	151.0	31.87	8.46	24.78
160.1	161.0	31.87	8.45	24.78
170.1	171.0	31.88	8.45	24.79
180.1	181.0	31.89	8.45	24.79
190.0	191.0	31.89	8.45	24.80
200.0	201.1	31.89	8.45	24.80
224.9	226.1	31.90	8.45	24.81
243.8	245.1	31.91	8.45	24.81



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 38.50  
 DATE 4/ 8/81  
 TIME (PST) 2153

TAPE U00711 -124  
 LONG W 126 17.30  
 PASS NO.433  
 STN KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	9.79	14.26	6.82
2.0	1.9	10.46	14.19	7.35
5.1	5.0	18.76	11.96	14.09
10.0	10.0	28.29	9.83	21.79
14.9	15.0	29.46	9.61	22.73
19.9	20.0	29.78	9.39	23.01
24.9	25.0	30.21	9.21	23.37
29.9	30.0	30.49	9.07	23.61
34.9	35.0	30.69	8.97	23.78
39.8	40.0	30.72	8.84	23.83
44.8	45.0	30.81	8.87	23.89
49.8	50.0	30.86	8.83	23.93
59.7	60.0	30.98	8.77	24.04
69.6	70.0	31.06	8.75	24.10
79.6	80.0	31.11	8.74	24.14
89.6	90.0	31.26	8.68	24.27
99.5	100.0	31.32	8.64	24.32
110.4	111.0	31.51	8.58	24.48
120.4	121.0	31.64	8.54	24.59
130.3	131.0	31.70	8.52	24.64
140.3	141.0	31.73	8.51	24.66
150.2	151.0	31.74	8.51	24.67
160.2	161.1	31.79	8.50	24.71
170.1	171.0	31.84	8.47	24.76
180.1	181.0	31.88	8.46	24.78
190.0	191.0	31.91	8.45	24.82
200.0	201.0	31.94	8.44	24.84
224.8	226.0	31.96	8.44	24.85
246.8	248.1	31.96	8.45	24.85

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 38.10  
 DATE 4/ 8/81  
 TIME (PST) 2239

TAPE U00711 -125  
 LONG W 126 25.20  
 PASS NO.435  
 STN KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.4	.3	11.91	14.66	8.38
2.0	2.0	14.86	13.64	10.82
5.0	5.0	21.37	12.21	16.06
10.0	10.0	28.95	9.95	22.28
15.0	15.0	29.65	9.68	22.86
20.0	20.0	30.21	9.44	23.34
24.8	24.9	30.63	9.25	23.69
29.9	30.0	30.70	9.19	23.76
34.9	35.0	30.84	9.12	23.87
39.8	40.0	30.95	9.05	23.97
44.8	45.0	31.01	9.02	24.02
49.8	50.0	31.07	8.97	24.08
59.7	60.0	31.16	8.89	24.16
69.7	70.0	31.30	8.79	24.28
79.6	80.0	31.39	8.73	24.36
89.6	90.0	31.54	8.63	24.49
100.4	101.0	31.62	8.58	24.56
110.4	111.0	31.64	8.57	24.58
120.4	121.0	31.66	8.56	24.60
130.3	131.0	31.73	8.53	24.66
140.2	141.0	31.79	8.50	24.71
150.2	151.0	31.83	8.48	24.75
160.1	161.0	31.83	8.48	24.75
170.1	171.0	31.85	8.47	24.76
180.1	181.1	31.86	8.46	24.77
190.0	191.0	31.88	8.46	24.78
199.9	201.0	31.88	8.46	24.79
224.8	226.0	31.92	8.44	24.82
239.8	241.1	31.92	8.45	24.82



CRUISE NO. 81-1 (NO. 31)





COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 51 2.30  
 DATE 8/ 8/81  
 TIME (PST) 0505

TAPE U00711 -142  
 LONG W 125 33.80  
 PASS NO. 37  
 STN KN11.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.5	.5	.64	7.50	.47
2.0	2.0	.73	7.48	.55
5.1	5.0	5.93	7.19	4.65
10.0	10.0	27.66	8.68	21.46
15.0	15.1	29.00	8.28	22.57
20.0	20.1	29.56	8.00	23.04
24.9	25.0	29.93	7.76	23.36
29.9	30.0	30.10	7.66	23.51
34.9	35.0	30.24	7.60	23.63
39.7	39.9	30.33	7.56	23.70
44.8	45.0	30.39	7.55	23.75
49.7	49.9	30.48	7.52	23.82
59.8	60.0	30.55	7.45	23.89
69.6	70.0	30.62	7.38	23.96
79.7	80.0	30.66	7.35	23.99
89.5	90.0	30.73	7.35	24.04
99.7	100.1	30.75	7.36	24.05
109.6	110.1	30.77	7.37	24.07
120.5	121.0	30.80	7.38	24.09
130.4	131.0	30.85	7.38	24.13
140.2	140.9	30.88	7.44	24.15
150.3	151.0	30.91	7.47	24.17
160.2	160.9	30.92	7.47	24.18
170.2	171.0	30.95	7.54	24.19
180.2	181.1	30.95	7.47	24.20
190.2	191.1	30.97	7.46	24.22
200.1	201.0	31.00	7.48	24.24
209.6	210.6	31.01	7.46	24.24

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 58.90  
 DATE 8/ 8/81  
 TIME (PST) 0423

TAPE U00711 -141  
 LONG W 125 33.20  
 PASS NO. 35  
 STN KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.0	2.0	.24	8.65	.09
5.1	5.0	.59	7.01	.45
10.0	10.0	27.42	9.05	21.22
14.9	15.0	29.14	8.17	22.68
19.9	20.0	29.74	7.88	23.20
24.9	25.0	30.05	7.70	23.47
29.8	29.9	30.14	7.66	23.54
34.8	35.0	30.25	7.59	23.64
39.8	39.9	30.35	7.57	23.72
44.7	44.9	30.44	7.54	23.79
49.8	50.0	30.47	7.53	23.82
59.8	60.1	30.56	7.44	23.90
69.7	70.0	30.62	7.39	23.96
79.7	80.0	30.68	7.34	24.01
89.6	90.0	30.72	7.34	24.04
99.5	100.0	30.75	7.36	24.06
110.4	111.0	30.80	7.37	24.09
120.4	120.9	30.83	7.40	24.12
130.3	131.0	30.88	7.53	24.14
140.3	141.0	30.89	7.44	24.16
150.3	151.0	30.91	7.43	24.17
160.2	161.0	30.93	7.48	24.19
170.2	171.0	30.95	7.50	24.19
180.1	180.9	30.98	7.50	24.22
190.0	190.9	30.98	7.48	24.22
200.2	201.1	31.00	7.54	24.23
225.0	226.0	31.03	7.51	24.26
249.9	251.1	31.07	7.57	24.28
274.8	276.1	31.07	7.51	24.29
299.4	300.9	31.09	7.48	24.31

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 54.30

DATE 8/ 8/81

TIME (PST) 0334

TAPE U00711 -140

LONG W 125 32.80

PASS NO. 33

STN KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.5	.5	.35	11.30	-.07
2.3	2.2	.39	12.38	-.05
4.8	4.7	.41	13.02	-.05
9.9	10.0	27.14	9.09	21.00
15.0	15.0	29.05	8.31	22.60
20.0	20.1	29.68	7.95	23.14
24.8	24.9	30.02	7.80	23.43
29.9	30.0	30.19	7.69	23.58
35.0	35.1	30.35	7.62	23.71
39.8	40.0	30.42	7.58	23.77
44.8	44.9	30.48	7.53	23.82
49.7	49.9	30.53	7.48	23.87
59.7	60.0	30.62	7.41	23.94
69.7	70.0	30.66	7.39	23.98
79.7	80.0	30.72	7.45	24.02
89.5	89.9	30.77	7.46	24.06
99.5	100.0	30.81	7.50	24.09
110.4	110.9	30.84	7.47	24.11
120.3	120.9	30.89	7.56	24.14
130.4	131.0	30.97	7.88	24.16
140.3	141.0	30.99	7.93	24.17
150.3	151.0	31.02	7.93	24.19
160.2	161.0	31.04	7.95	24.20
170.1	170.9	31.05	7.97	24.21
180.3	181.1	31.05	7.88	24.22
190.1	191.0	31.06	7.91	24.23
199.9	200.8	31.07	7.91	24.23
225.0	226.1	31.06	7.57	24.27
249.8	251.0	31.06	7.47	24.29
274.7	276.0	31.09	7.48	24.30
300.5	301.9	31.12	7.51	24.32
325.4	327.0	31.14	7.54	24.34
350.4	352.1	31.19	7.60	24.37
375.1	377.0	31.22	7.66	24.38
400.1	402.0	31.24	7.70	24.39
402.8	404.8	31.24	7.71	24.39

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 52.40  
 DATE 8/ 8/81  
 TIME (PST) 0244

TAPE U00711 -139  
 LONG W 125 38.50  
 PASS NO. 30  
 STN KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.4	.4	.53	12.56	-.07
2.4	2.3	.62	14.50	-.06
4.9	4.9	.70	14.84	-.01
10.0	10.0	27.83	8.85	21.57
14.9	15.0	28.96	8.48	22.51
19.9	20.0	29.61	8.08	23.07
25.0	25.1	29.97	7.82	23.39
29.9	30.0	30.16	7.74	23.54
34.9	35.1	30.24	7.69	23.62
39.9	40.0	30.32	7.66	23.68
44.8	45.0	30.43	7.59	23.78
49.8	50.0	30.47	7.58	23.81
59.7	60.0	30.56	7.52	23.88
69.7	70.0	30.61	7.41	23.94
79.6	80.0	30.68	7.42	24.00
89.5	89.9	30.75	7.51	24.04
100.5	100.9	30.81	7.61	24.07
110.5	111.0	30.88	7.81	24.10
120.4	121.0	30.91	7.87	24.11
130.4	131.0	30.95	7.92	24.14
140.4	141.1	30.97	7.90	24.16
150.3	151.0	30.99	7.95	24.17
160.3	161.1	31.03	8.07	24.18
170.2	171.0	31.05	8.08	24.20
180.1	181.0	31.07	8.09	24.21
190.2	191.1	31.08	8.09	24.21
200.1	201.0	31.10	8.08	24.23
225.0	226.0	31.12	8.02	24.26
249.8	251.0	31.14	7.97	24.28
274.7	276.0	31.14	7.82	24.30
299.5	301.0	31.14	7.74	24.31
325.5	327.0	31.14	7.58	24.33
350.3	352.0	31.18	7.60	24.36
375.1	376.9	31.21	7.66	24.38
399.9	401.9	31.24	7.73	24.39
424.9	427.0	31.26	7.77	24.40
449.7	451.9	31.26	7.78	24.40
474.6	477.0	31.27	7.78	24.41
489.3	491.7	31.26	7.78	24.40

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 47.90

DATE 8/ 8/81

TIME (PST) 0153

TAPE U00711 -138

LONG W 125 37.00

PASS NO. 28

STN KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.5	.5	1.87	12.54	.97
2.0	2.0	2.57	11.99	1.59
5.1	5.0	7.04	10.84	5.19
10.0	10.0	27.82	8.89	21.56
15.0	15.0	29.21	8.42	22.71
19.9	20.0	29.78	8.11	23.20
24.9	25.0	30.05	8.02	23.42
29.9	30.0	30.20	7.89	23.56
34.9	35.0	30.32	7.87	23.65
39.9	40.0	30.38	7.70	23.72
44.8	45.0	30.44	7.72	23.77
49.8	50.0	30.51	7.67	23.83
59.8	60.0	30.58	7.59	23.89
69.7	70.0	30.67	7.64	23.96
79.6	80.0	30.74	7.66	24.01
89.6	90.0	30.79	7.71	24.04
99.5	100.0	30.84	7.80	24.07
109.6	110.1	30.92	8.04	24.10
120.5	121.0	30.93	7.96	24.12
130.5	131.1	30.97	8.00	24.14
140.4	141.0	31.00	8.12	24.15
150.3	151.0	31.02	8.15	24.16
160.3	161.1	31.05	8.17	24.18
170.3	171.1	31.06	8.16	24.19
180.2	181.0	31.08	8.18	24.20
190.2	191.1	31.10	8.17	24.22
200.1	201.0	31.11	8.13	24.23
225.0	226.1	31.14	8.15	24.25
249.8	251.0	31.15	7.99	24.28
274.7	276.0	31.17	8.02	24.30
300.5	301.9	31.16	7.81	24.32
325.4	327.0	31.17	7.70	24.34
350.3	352.0	31.18	7.64	24.36
375.1	377.0	31.23	7.74	24.38
400.1	402.1	31.25	7.77	24.40
424.9	427.0	31.26	7.79	24.40
449.7	451.9	31.26	7.79	24.40
474.6	476.9	31.27	7.80	24.40
499.1	501.5	31.27	7.80	24.40



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 45.10

DATE 8/ 8/81

TIME (PST) 0054

TAPE U00711 -137

LONG W 125 41.00

PASS NO. 24

STN KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.5	.5	1.62	13.33	.68
2.0	2.0	1.61	13.32	.67
5.1	5.0	2.05	13.20	1.02
10.0	10.0	28.09	8.77	21.79
15.0	15.1	29.42	8.40	22.87
19.9	20.0	29.99	8.16	23.35
24.9	25.0	30.23	8.06	23.56
29.9	30.0	30.36	7.98	23.67
34.8	35.0	30.43	7.93	23.73
39.8	40.0	30.48	7.70	23.80
44.8	45.0	30.54	7.67	23.85
49.7	50.0	30.58	7.66	23.89
59.7	60.0	30.64	7.69	23.93
69.6	69.9	30.73	7.76	23.99
79.6	80.0	30.81	7.79	24.04
89.6	90.0	30.85	7.84	24.07
99.5	100.0	30.92	7.97	24.10
110.4	111.0	30.96	8.09	24.12
120.4	121.0	30.98	8.11	24.14
130.3	130.9	31.03	8.16	24.17
140.4	141.0	31.04	8.16	24.18
150.3	151.0	31.06	8.23	24.18
160.3	161.1	31.08	8.26	24.19
170.3	171.1	31.11	8.29	24.21
180.2	181.0	31.12	8.29	24.22
190.1	191.0	31.13	8.29	24.23
200.0	201.0	31.14	8.24	24.24
224.9	226.0	31.16	8.19	24.27
249.8	251.0	31.18	8.11	24.29
274.7	276.0	31.19	8.06	24.30
299.6	301.0	31.19	7.95	24.32
325.4	327.0	31.19	7.80	24.35
350.3	352.0	31.20	7.73	24.36
375.1	377.0	31.24	7.77	24.39
400.1	402.0	31.26	7.79	24.40
424.9	426.9	31.27	7.80	24.40
449.8	452.0	31.27	7.80	24.40
474.6	477.0	31.27	7.81	24.40
499.5	502.0	31.27	7.81	24.40
503.7	506.2	31.27	7.81	24.41

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 41.90

DATE 7/ 8/81

TIME (PST) 2357

TAPE U00711 -136

LONG W 125 43.50

PASS NO. 22

STN SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	2.73	13.84	1.46
2.0	1.9	2.95	13.74	1.65
5.1	5.1	7.89	12.02	5.70
10.0	10.0	26.24	9.15	20.29
15.0	15.0	29.47	8.41	22.91
19.9	20.0	29.77	8.33	23.16
24.9	25.0	29.97	8.28	23.32
29.9	30.0	30.15	8.28	23.46
34.9	35.0	30.29	8.23	23.58
39.8	40.0	30.40	8.12	23.68
44.8	45.0	30.49	8.01	23.76
49.8	50.1	30.54	7.95	23.81
59.8	60.0	30.62	7.79	23.90
69.7	70.0	30.71	7.82	23.96
79.6	79.9	30.75	7.85	23.99
89.6	90.0	30.81	7.90	24.03
99.6	100.0	30.85	7.96	24.05
109.5	110.0	30.87	8.01	24.06
120.4	121.0	30.91	8.05	24.09
130.4	131.0	30.94	8.11	24.10
140.3	141.0	30.98	8.18	24.12
150.3	151.0	31.01	8.20	24.15
160.3	161.1	31.03	8.21	24.16
170.2	171.0	31.06	8.26	24.17
180.1	181.0	31.07	8.29	24.18
190.0	190.9	31.10	8.31	24.20
200.1	201.0	31.11	8.31	24.21
225.0	226.1	31.15	8.27	24.24
249.9	251.1	31.20	8.27	24.28
274.7	276.0	31.20	8.16	24.30
299.6	301.0	31.22	8.10	24.32
325.4	327.0	31.23	8.02	24.34
350.2	351.9	31.23	7.88	24.36
375.2	377.0	31.24	7.80	24.38
400.1	402.0	31.26	7.80	24.40
424.9	427.0	31.26	7.81	24.40
447.7	449.9	31.27	7.82	24.40

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 41.70  
 DATE 7/ 8/81  
 TIME (PST) 2249

TAPE U00711 -135  
 LONG W 125 46.60  
 PASS NO. 20  
 STN SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.3	3.2	3.28	14.50	1.79
5.1	5.0	4.47	14.68	2.67
10.0	10.1	28.41	8.83	22.03
14.9	15.0	29.03	8.63	22.54
20.0	20.0	29.65	8.56	23.03
24.9	25.0	29.95	8.50	23.28
29.9	30.0	30.05	8.46	23.36
34.9	35.0	30.35	8.33	23.61
39.8	40.0	30.42	8.31	23.67
44.8	45.0	30.45	8.29	23.69
49.8	50.0	30.48	8.23	23.73
59.8	60.0	30.52	8.16	23.77
69.7	70.0	30.68	7.88	23.93
79.7	80.0	30.76	7.97	23.98
89.6	90.0	30.82	8.00	24.03
100.5	100.9	30.90	8.11	24.07
109.5	110.0	30.92	8.13	24.09
120.5	121.0	30.95	8.19	24.10
130.4	131.0	30.99	8.23	24.12
140.3	140.9	31.00	8.27	24.13
150.3	151.0	31.02	8.25	24.15
160.3	161.0	31.07	8.34	24.17
170.2	171.0	31.10	8.35	24.20
180.1	181.0	31.12	8.35	24.21
190.1	191.0	31.14	8.38	24.22
200.0	201.0	31.15	8.39	24.23
224.9	226.0	31.18	8.37	24.25
249.9	251.1	31.21	8.33	24.28
274.6	275.9	31.23	8.30	24.30
300.5	301.9	31.24	8.22	24.32
325.3	326.9	31.23	8.12	24.33
350.3	352.0	31.22	7.91	24.35
357.8	359.6	31.23	7.86	24.36

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 41.60

DATE 7/ 8/81

TIME (PST) 2220

TAPE U00711 -134

LONG W 125 49.30

PASS NO. 18

STN TOM. ISL.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.4	.4	4.27	15.10	2.45
2.0	1.9	5.14	14.79	3.17
5.1	5.0	10.81	13.00	7.81
10.0	10.0	28.26	8.89	21.90
14.9	15.0	29.39	8.63	22.82
19.9	20.0	29.98	8.49	23.30
24.9	25.0	30.22	8.46	23.49
29.9	30.1	30.33	8.47	23.57
34.9	35.0	30.40	8.50	23.63
39.8	40.0	30.54	8.47	23.74
44.8	45.0	30.60	8.31	23.81
49.8	50.0	30.62	8.14	23.85
59.7	60.0	30.70	8.09	23.92
69.6	70.0	30.72	8.08	23.94
79.6	79.9	30.77	8.04	23.98
89.6	90.0	30.80	8.04	24.00
99.5	100.0	30.85	8.06	24.04
110.4	111.0	30.90	8.11	24.07
120.5	121.1	30.91	8.12	24.08
130.5	131.1	30.94	8.16	24.10
140.4	141.0	30.96	8.19	24.11
150.3	151.0	30.99	8.23	24.13
160.3	161.0	31.02	8.26	24.14
170.2	171.0	31.06	8.31	24.17
180.2	181.0	31.08	8.32	24.18
190.1	191.0	31.10	8.35	24.20
200.0	201.0	31.14	8.42	24.21
224.9	226.0	31.19	8.43	24.25
249.7	250.9	31.21	8.40	24.27
274.6	275.9	31.22	8.33	24.29
300.5	301.9	31.24	8.30	24.31
325.4	327.0	31.23	8.06	24.34
339.4	341.0	31.23	7.96	24.35

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 41.10  
 DATE 7/ 8/81  
 TIME (PST) 2144

TAPE U00711 -133  
 LONG W 125 51.90  
 PASS NO. 16  
 STN MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.6	.6	4.25	14.50	2.54
2.0	2.0	4.25	14.46	2.54
5.1	5.0	6.19	14.29	4.06
9.9	10.0	28.68	8.85	22.23
14.9	15.0	29.70	8.67	23.06
19.9	20.0	30.05	8.54	23.35
24.9	25.0	30.19	8.60	23.44
29.9	30.0	30.31	8.55	23.55
34.9	35.0	30.46	8.49	23.67
39.9	40.0	30.53	8.49	23.73
44.8	45.0	30.57	8.46	23.76
49.8	50.0	30.60	8.35	23.80
59.8	60.0	30.64	8.24	23.85
69.7	70.0	30.72	8.08	23.93
79.6	80.0	30.79	8.08	23.99
89.6	90.0	30.81	8.05	24.01
99.6	100.0	30.85	8.09	24.04
110.5	111.0	30.88	8.10	24.06
120.5	121.0	30.95	8.32	24.08
130.4	131.0	30.98	8.29	24.11
140.4	141.0	31.01	8.31	24.12
150.4	151.1	31.02	8.37	24.13
160.3	161.0	31.06	8.44	24.15
170.1	170.9	31.07	8.43	24.16
180.1	181.0	31.08	8.43	24.17
190.1	191.0	31.10	8.45	24.18
200.1	201.0	31.11	8.45	24.18
224.9	225.9	31.15	8.44	24.22
249.8	251.0	31.19	8.43	24.25
274.7	276.0	31.23	8.41	24.29
299.5	301.0	31.23	8.37	24.29
318.2	319.7	31.24	8.31	24.31



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 40.70

DATE 7/ 8/81

TIME (PST) 2109

TAPE U00711 -132

LONG W 125 54.40

PASS NO. 14

STN ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.1	2.1	5.13	14.83	3.16
5.0	5.0	6.52	14.34	4.30
10.0	10.1	28.59	8.94	22.15
14.9	15.0	29.73	8.70	23.08
19.9	20.0	29.93	8.68	23.23
24.9	25.0	30.12	8.61	23.39
29.8	30.0	30.25	8.57	23.50
34.9	35.0	30.41	8.50	23.63
39.9	40.1	30.52	8.46	23.73
44.9	45.1	30.64	8.46	23.82
49.7	49.9	30.68	8.44	23.85
59.7	60.0	30.75	8.40	23.91
69.7	70.0	30.81	8.41	23.96
79.7	80.1	30.88	8.38	24.02
89.6	90.0	30.91	8.37	24.04
99.6	100.0	30.92	8.23	24.07
109.5	110.0	30.95	8.20	24.09
120.4	120.9	30.98	8.22	24.12
130.4	131.0	30.99	8.24	24.13
140.3	140.9	31.03	8.37	24.14
150.2	151.0	31.07	8.43	24.16
160.2	161.0	31.09	8.44	24.17
170.2	171.0	31.12	8.45	24.19
180.2	181.0	31.12	8.45	24.20
190.1	191.0	31.15	8.45	24.22
200.0	201.0	31.16	8.45	24.22
225.0	226.0	31.21	8.44	24.27
249.8	251.1	31.24	8.42	24.29
274.7	276.0	31.25	8.41	24.30
299.5	301.0	31.25	8.39	24.30
325.4	327.0	31.25	8.34	24.31
350.3	351.9	31.25	8.32	24.31
375.2	377.0	31.26	8.33	24.32
398.1	400.1	31.26	8.31	24.33

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 40.60  
 DATE 7/ 8/81  
 TIME (PST) 2040

TAPE U00711 -131  
 LONG W 125 57.20  
 PASS NO. 12  
 STN CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.4	.4	5.38	15.48	3.25
2.0	2.0	5.38	15.48	3.25
5.1	5.0	6.04	14.78	3.87
10.0	10.0	27.16	9.06	21.02
14.9	15.0	28.82	8.91	22.33
20.0	20.0	29.45	8.76	22.85
24.9	25.0	29.71	8.68	23.06
29.9	30.0	29.82	8.63	23.16
34.9	35.0	30.23	8.54	23.49
39.8	40.0	30.35	8.54	23.58
44.8	45.0	30.42	8.53	23.64
49.8	50.0	30.58	8.51	23.77
59.7	60.0	30.66	8.50	23.83
69.7	70.0	30.88	8.47	24.01
79.7	80.1	30.97	8.45	24.08
89.6	90.0	30.97	8.45	24.07
99.6	100.1	31.04	8.46	24.13
110.4	111.0	31.06	8.46	24.14
120.4	121.0	31.12	8.47	24.19
130.4	131.0	31.13	8.47	24.20
140.3	141.0	31.16	8.46	24.22
150.3	151.0	31.17	8.46	24.23
160.2	161.0	31.17	8.46	24.23
170.1	171.0	31.17	8.45	24.24
180.2	181.0	31.19	8.45	24.25
190.1	191.0	31.21	8.44	24.26
200.1	201.0	31.21	8.44	24.27
224.9	225.9	31.25	8.42	24.30
249.8	251.1	31.26	8.36	24.31
274.7	276.1	31.26	8.35	24.32
299.6	301.0	31.27	8.36	24.32
325.5	327.1	31.27	8.38	24.32
348.9	350.5	31.27	8.37	24.33

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 40.60

DATE 7/ 8/81

TIME (PST) 2025

TAPE U00711 -130

LONG W 125 59.50

PASS NO. 10

STN HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.4	.4	6.13	15.53	3.81
2.0	2.0	6.20	15.49	3.88
5.1	5.0	7.62	14.63	5.10
10.0	10.1	28.92	8.86	22.42
15.0	15.0	29.75	8.74	23.08
20.0	20.0	30.43	8.54	23.64
24.9	25.0	30.57	8.52	23.76
29.9	30.0	30.66	8.49	23.83
34.9	35.0	30.70	8.47	23.87
39.8	40.0	30.75	8.44	23.91
44.8	45.0	30.76	8.43	23.92
49.8	50.0	30.85	8.38	23.99
59.7	60.0	30.94	8.45	24.05
69.5	69.8	31.37	8.55	24.37

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 39.90  
 DATE 7/ 8/81  
 TIME (PST) 1955

TAPE U00711 -129  
 LONG W 126 4.20  
 PASS NO. 8  
 STN KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.5	.5	7.75	15.29	5.10
2.0	2.0	7.74	15.29	5.08
5.0	5.0	15.91	12.76	11.77
9.9	10.0	29.08	8.96	22.53
14.9	15.0	30.04	8.67	23.32
20.0	20.0	30.38	8.56	23.60
24.9	25.0	30.54	8.53	23.73
29.9	30.0	30.67	8.50	23.84
34.8	35.0	30.88	8.45	24.00
39.8	40.0	30.90	8.45	24.02
44.8	45.0	30.95	8.44	24.06
49.8	50.0	30.96	8.44	24.07
59.7	60.0	31.08	8.55	24.15
69.7	70.0	31.27	8.58	24.29
79.6	80.0	31.57	8.54	24.53
89.5	90.0	31.66	8.51	24.61
100.5	101.0	31.72	8.50	24.65
110.4	111.0	31.76	8.50	24.69
120.4	121.0	31.77	8.50	24.69
130.4	131.0	31.78	8.49	24.70
140.2	141.0	31.80	8.48	24.72
150.2	151.0	31.81	8.48	24.73
160.1	161.0	31.83	8.47	24.74
170.2	171.1	31.83	8.47	24.75
180.0	181.0	31.85	8.47	24.76
186.0	186.9	31.87	8.46	24.78

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 39.20  
 DATE 7/ 8/81  
 TIME (PST) 1908

TAPE U00711 -128  
 LONG W 126 12.50  
 PASS NO. 6  
 STN MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	11.95	14.32	8.47
2.0	1.9	12.69	13.89	9.11
5.0	5.0	24.45	10.24	18.75
10.0	10.0	28.67	9.33	22.16
15.0	15.0	30.12	8.88	23.35
19.9	20.0	30.46	8.75	23.63
24.9	25.0	30.62	8.64	23.78
29.9	30.0	30.75	8.71	23.86
34.9	35.0	30.83	8.70	23.93
39.8	40.0	30.94	8.64	24.03
44.8	45.0	30.98	8.67	24.05
49.8	50.0	31.06	8.66	24.11
59.7	60.0	31.17	8.65	24.20
69.7	70.1	31.34	8.70	24.33
79.7	80.1	31.41	8.62	24.39
89.5	90.0	31.61	8.59	24.56
99.5	100.0	31.69	8.54	24.63
110.4	111.0	31.70	8.53	24.64
120.4	121.0	31.75	8.50	24.67
130.4	131.0	31.77	8.50	24.70
140.2	141.0	31.81	8.49	24.72
150.2	151.0	31.86	8.50	24.76
160.2	161.0	31.88	8.52	24.78
170.0	170.9	31.87	8.52	24.77
180.1	181.1	31.89	8.52	24.79
190.0	191.0	31.93	8.50	24.82
199.9	201.0	31.94	8.49	24.83
224.8	226.0	31.95	8.47	24.84
232.5	233.7	31.95	8.48	24.84



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 38.50  
 DATE 7/ 8/81  
 TIME (PST) 1836

TAPE U00711 -127  
 LONG W 126 17.30  
 PASS NO. 4  
 STN KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.6	.6	15.38	13.66	11.21
2.1	2.0	15.37	13.54	11.22
4.9	4.9	26.41	9.97	20.30
10.0	10.0	28.53	9.43	22.03
14.9	15.0	30.15	8.91	23.37
19.9	19.9	30.26	8.82	23.47
24.9	25.0	30.61	8.70	23.76
29.8	30.0	30.82	8.80	23.91
34.9	35.0	30.97	8.75	24.03
39.8	40.0	31.04	8.70	24.09
44.8	45.0	31.07	8.65	24.13
49.8	50.0	31.11	8.66	24.16
59.7	60.0	31.21	8.65	24.23
69.7	70.0	31.34	8.63	24.34
79.6	80.0	31.50	8.61	24.47
89.5	90.0	31.65	8.58	24.59
100.5	101.0	31.73	8.53	24.66
110.5	111.0	31.77	8.51	24.69
120.4	121.1	31.79	8.50	24.71
130.3	131.0	31.82	8.49	24.74
140.3	141.0	31.83	8.49	24.75
150.2	151.0	31.86	8.48	24.77
160.1	161.0	31.98	8.48	24.86
170.1	171.0	31.97	8.48	24.85
180.1	181.1	31.96	8.49	24.85
190.0	191.0	32.00	8.48	24.87
199.9	201.0	32.03	8.47	24.90
224.8	226.0	32.04	8.47	24.91
245.6	247.0	32.12	8.44	24.98

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 38.10

DATE 7/ 8/81

TIME (PST) 1730

TAPE U00711 -126

LONG W 126 25.20

PASS NO. 1

STN KN1

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	15.98	15.21	11.40
2.0	2.0	16.38	14.93	11.75
5.0	5.0	26.59	10.20	20.41
9.9	10.0	28.78	9.91	22.15
14.9	14.9	29.83	9.35	23.06
19.9	20.0	30.33	8.98	23.50
24.9	25.1	30.57	8.88	23.70
29.8	30.0	30.61	8.86	23.73
34.8	34.9	30.68	8.81	23.80
39.8	40.0	30.78	8.78	23.88
44.8	45.0	30.86	8.74	23.95
49.8	50.0	30.95	8.76	24.01
59.7	60.0	31.16	8.86	24.17
69.7	70.0	31.28	8.83	24.27
79.7	80.0	31.35	8.79	24.32
89.6	90.0	31.49	8.69	24.45
100.4	100.9	31.55	8.66	24.50
110.5	111.0	31.62	8.61	24.56
120.3	121.0	31.69	8.56	24.63
130.3	131.0	31.78	8.52	24.70
140.2	141.0	31.80	8.50	24.72
150.2	151.0	31.82	8.49	24.74
160.1	161.0	31.84	8.49	24.75
170.1	171.0	31.86	8.48	24.77
180.1	181.1	31.88	8.47	24.79
190.0	191.0	31.89	8.47	24.79
199.9	201.0	31.90	8.47	24.80
224.8	226.0	31.91	8.47	24.81
246.6	248.0	31.94	8.47	24.83



CRUISE NO. 81-1 (NO. 32)





## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 51 2.30

DATE 11/ 8/81

TIME (PST) 0326

TAPE U00711 -159

LONG W 125 33.80

PASS NO.235

STN KN11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
1.4	1.4	.21	9.22	.02
4.1	4.1	.22	8.63	.07
9.9	10.0	27.20	8.67	21.11
14.9	15.0	29.27	8.08	22.80
19.9	20.0	29.82	7.81	23.27
24.9	25.0	30.10	7.65	23.51
29.9	30.0	30.24	7.59	23.62
35.0	35.1	30.32	7.56	23.70
39.8	40.0	30.41	7.54	23.77
44.8	45.0	30.49	7.50	23.83
49.8	50.0	30.53	7.46	23.87
59.8	60.0	30.61	7.38	23.94
69.8	70.1	30.64	7.36	23.97
79.6	80.0	30.70	7.35	24.02
89.6	90.0	30.75	7.36	24.06
99.6	100.1	30.79	7.38	24.08
110.4	110.9	30.80	7.38	24.09
120.4	121.0	30.82	7.38	24.11
130.5	131.1	30.88	7.41	24.15
140.3	141.0	30.90	7.48	24.16
150.4	151.1	30.93	7.49	24.18
160.2	160.9	30.94	7.51	24.19
170.2	171.0	30.95	7.47	24.20
180.2	181.0	30.96	7.46	24.21
190.2	191.1	30.97	7.47	24.22
200.1	201.1	30.99	7.47	24.23
224.9	226.0	31.02	7.46	24.26
229.1	230.2	31.02	7.46	24.25

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 58.90  
 DATE 11/ 8/81  
 TIME (PST) 0245

TAPE U00711 -158  
 LONG W 125 33.20  
 PASS NO.233  
 STN KN10

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.0	2.0	.23	9.69	-.00
4.9	4.8	.22	9.61	-.00
10.0	10.0	26.60	8.75	20.63
15.0	15.0	29.00	8.21	22.58
20.0	20.1	29.76	7.87	23.21
24.9	25.0	30.08	7.67	23.49
29.8	29.9	30.23	7.60	23.62
34.9	35.1	30.36	7.56	23.72
39.9	40.0	30.43	7.54	23.78
44.9	45.1	30.49	7.50	23.84
49.8	50.1	30.56	7.46	23.90
59.8	60.0	30.62	7.41	23.95
69.6	70.0	30.67	7.39	23.99
79.6	79.9	30.70	7.35	24.02
89.6	90.0	30.77	7.37	24.07
99.5	100.0	30.79	7.37	24.09
110.5	111.0	30.83	7.39	24.12
120.4	121.0	30.85	7.45	24.13
130.4	131.0	30.89	7.50	24.15
140.4	141.0	30.92	7.62	24.16
150.2	150.9	30.95	7.59	24.18
160.2	161.0	30.96	7.60	24.19
170.1	170.9	30.97	7.59	24.20
180.1	181.0	31.00	7.66	24.21
190.0	190.9	31.01	7.55	24.23
199.9	200.8	31.04	7.71	24.24
224.9	226.0	31.03	7.44	24.27
249.8	251.0	31.06	7.46	24.29
274.7	276.1	31.08	7.47	24.30
299.5	300.9	31.11	7.49	24.32
301.1	302.6	31.11	7.49	24.32

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 54.30

DATE 11/ 8/81

TIME (PST) 0202

TAPE U00711 -157

LONG W 125 32.80

PASS NO.231

STN KN9

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.0	1.9	.47	9.98	.16
5.1	5.0	.36	9.99	.07
9.9	9.9	27.43	8.93	21.25
14.9	15.0	29.15	8.27	22.69
19.9	20.0	29.88	7.85	23.31
24.8	24.9	30.08	7.74	23.48
30.0	30.1	30.22	7.68	23.60
34.8	35.0	30.34	7.63	23.70
39.8	40.0	30.42	7.59	23.77
44.7	44.9	30.48	7.56	23.82
49.9	50.1	30.54	7.50	23.88
59.7	59.9	30.61	7.45	23.94
69.6	69.9	30.66	7.43	23.98
79.7	80.0	30.71	7.40	24.02
89.5	89.9	30.74	7.38	24.05
99.6	100.0	30.82	7.68	24.07
110.4	110.9	30.87	7.69	24.11
119.5	120.1	30.91	7.83	24.12
130.4	131.0	30.94	7.83	24.14
140.3	140.9	30.96	7.79	24.16
150.3	151.1	30.98	7.84	24.17
160.3	161.1	31.00	7.85	24.19
170.3	171.1	31.01	7.86	24.20
180.2	181.0	31.04	7.93	24.21
190.0	190.9	31.05	7.92	24.22
200.0	200.9	31.06	7.86	24.23
225.0	226.1	31.05	7.71	24.25
249.8	251.0	31.08	7.68	24.27
274.8	276.1	31.09	7.56	24.30
299.5	300.9	31.11	7.54	24.32
325.4	327.0	31.14	7.52	24.34
350.3	352.0	31.18	7.58	24.36
375.3	377.1	31.23	7.67	24.39
400.1	402.0	31.25	7.73	24.40
401.7	403.6	31.25	7.74	24.40

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO Q1 KNIGHT INLET, 1981  
 LAT N 50 52.40  
 DATE 11/ 8/81  
 TIME (PST) 0120

TAPE U00711 -156  
 LONG W 125 38.50  
 PASS NO.228  
 STN KN8

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.0	2.0	.66	11.78	.12
5.0	5.0	.72	11.76	.18
10.0	10.0	26.92	9.10	20.83
14.9	14.9	29.13	8.36	22.66
19.9	19.9	29.76	7.93	23.20
24.9	25.0	30.06	7.81	23.46
30.0	30.1	30.26	7.67	23.64
34.9	35.0	30.33	7.64	23.69
39.9	40.1	30.41	7.61	23.76
44.8	45.0	30.49	7.56	23.83
49.8	50.0	30.55	7.50	23.88
59.9	60.1	30.63	7.46	23.95
69.7	70.1	30.70	7.53	24.00
79.6	80.0	30.78	7.65	24.04
89.6	90.0	30.83	7.70	24.07
99.6	100.0	30.86	7.77	24.09
110.4	111.0	30.92	7.90	24.11
120.4	120.9	30.95	7.95	24.14
130.5	131.1	30.99	8.04	24.15
140.3	141.0	31.01	8.02	24.17
150.2	150.9	31.02	8.05	24.18
160.2	161.0	31.05	8.10	24.19
170.2	171.0	31.06	8.09	24.20
180.2	181.1	31.08	8.06	24.22
190.1	191.0	31.09	8.01	24.23
199.9	200.9	31.12	8.08	24.24
225.1	226.1	31.13	7.99	24.27
249.8	251.0	31.13	7.76	24.30
274.7	276.0	31.09	7.50	24.30
300.4	301.9	31.12	7.51	24.33
325.5	327.1	31.16	7.55	24.35
350.3	352.0	31.19	7.61	24.37
375.1	377.0	31.24	7.70	24.39
400.1	402.1	31.25	7.73	24.40
425.0	427.1	31.26	7.77	24.40
449.9	452.1	31.27	7.77	24.41
474.6	477.0	31.27	7.78	24.41
482.4	484.8	31.27	7.78	24.41

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 47.90  
 DATE 11/ 8/81  
 TIME (PST) 0035

TAPE U00711 -155  
 LONG W 125 37.00  
 PASS NO.227  
 STN KN7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.0	2.0	.61	11.78	.09
5.1	5.0	.76	10.76	.31
10.0	10.0	27.11	9.04	20.98
15.0	15.0	29.26	8.30	22.77
20.0	20.1	29.83	8.00	23.25
24.9	25.0	30.05	7.89	23.44
29.9	30.0	30.26	7.80	23.61
34.8	35.0	30.39	7.86	23.71
39.9	40.1	30.45	7.63	23.79
44.9	45.1	30.50	7.60	23.83
49.8	50.0	30.56	7.60	23.87
59.7	60.0	30.65	7.63	23.94
69.7	70.0	30.74	7.66	24.01
79.6	80.0	30.81	7.78	24.04
89.5	89.9	30.84	7.83	24.06
100.5	101.0	30.88	7.86	24.09
109.5	110.0	30.92	8.02	24.10
120.4	121.0	30.96	8.09	24.12
130.4	131.0	30.99	8.11	24.14
140.4	141.1	31.01	8.14	24.15
150.3	151.0	31.03	8.14	24.17
160.2	161.0	31.06	8.18	24.19
170.2	171.1	31.08	8.16	24.20
180.2	181.1	31.10	8.22	24.21
190.1	191.0	31.10	8.15	24.23
200.1	201.1	31.13	8.19	24.24
224.9	226.0	31.13	8.12	24.25
249.9	251.1	31.15	8.03	24.28
274.7	276.0	31.18	8.00	24.30
299.5	301.0	31.18	7.93	24.32
325.5	327.1	31.16	7.74	24.33
350.3	352.0	31.19	7.64	24.36
375.1	377.0	31.22	7.68	24.38
400.0	402.0	31.25	7.76	24.40
424.8	426.9	31.26	7.78	24.40
449.8	452.1	31.27	7.79	24.40
474.7	477.0	31.28	7.80	24.41
500.4	502.8	31.27	7.80	24.41
500.4	502.8	31.27	7.80	24.41



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 45.10  
 DATE 10/ 8/81  
 TIME (PST) 2345

TAPE U00711 -154  
 LONG W 125 41.00  
 PASS NO.225  
 STN KN6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.9	.9	1.11	13.43	.27
2.1	2.0	1.13	13.39	.29
5.0	4.9	1.64	13.09	.72
10.0	10.0	26.65	9.10	20.62
15.0	15.1	29.18	8.39	22.69
20.0	20.1	29.64	8.15	23.08
24.9	25.0	30.05	8.06	23.41
29.8	30.0	30.20	7.96	23.54
34.9	35.0	30.27	7.84	23.62
39.8	40.0	30.45	7.84	23.76
44.9	45.1	30.48	7.69	23.80
49.8	50.0	30.55	7.70	23.86
59.7	60.0	30.64	7.65	23.93
69.6	69.9	30.71	7.68	23.98
79.6	80.0	30.77	7.80	24.01
89.6	90.0	30.83	7.90	24.04
99.5	100.0	30.90	8.04	24.08
109.6	110.1	30.95	8.09	24.11
120.4	120.9	30.96	8.12	24.12
130.3	130.9	30.99	8.15	24.14
140.3	141.0	31.02	8.19	24.15
150.3	151.0	31.05	8.22	24.17
160.2	160.9	31.06	8.21	24.19
170.3	171.1	31.09	8.23	24.20
180.1	180.9	31.10	8.25	24.21
190.1	191.0	31.13	8.27	24.23
200.1	201.1	31.14	8.26	24.24
225.0	226.0	31.17	8.22	24.26
249.7	250.9	31.17	8.11	24.28
274.6	276.0	31.18	7.99	24.31
299.6	301.0	31.20	8.02	24.32
325.4	327.0	31.20	7.86	24.34
350.2	352.0	31.20	7.79	24.35
375.3	377.1	31.22	7.73	24.38
400.0	401.9	31.25	7.76	24.40
424.9	427.0	31.27	7.80	24.40
449.8	452.0	31.27	7.80	24.41
474.6	477.0	31.27	7.80	24.41
500.1	502.5	31.27	7.81	24.41
500.1	502.5	31.27	7.81	24.41

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 41.90  
 DATE 10/ 8/81  
 TIME (PST) 2308

TAPE U00711 -153  
 LONG W 125 43.50  
 PASS NO.223  
 STN SALLIE PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.9	.9	2.07	14.65	.83
2.0	2.0	2.01	14.69	.78
5.1	5.0	2.02	14.86	.77
10.0	10.0	28.00	8.78	21.71
15.0	15.0	29.57	8.30	23.00
19.9	20.0	29.92	8.21	23.29
24.8	24.9	30.24	8.09	23.56
29.9	30.1	30.37	7.99	23.67
34.9	35.0	30.48	7.85	23.78
39.9	40.0	30.58	7.81	23.86
44.7	44.9	30.61	7.83	23.89
49.8	50.0	30.63	7.78	23.91
59.7	60.0	30.74	7.82	23.99
69.6	69.9	30.82	7.95	24.03
79.7	80.1	30.90	8.11	24.07
89.7	90.1	30.93	8.15	24.09
99.5	100.0	30.97	8.21	24.11
109.6	110.1	30.99	8.17	24.13
120.3	120.9	31.02	8.27	24.14
130.5	131.1	31.06	8.32	24.17
140.4	141.0	31.07	8.33	24.18
150.3	151.0	31.09	8.32	24.19
160.2	161.0	31.12	8.33	24.21
170.2	171.0	31.13	8.35	24.22
180.2	181.0	31.16	8.38	24.23
190.1	191.0	31.17	8.38	24.25
200.1	201.0	31.18	8.37	24.25
224.9	226.0	31.20	8.33	24.28
249.8	251.0	31.22	8.31	24.30
274.7	276.0	31.22	8.18	24.31
299.7	301.1	31.23	8.13	24.32
325.5	327.1	31.23	8.04	24.34
350.3	352.0	31.22	7.81	24.36
375.2	377.0	31.25	7.80	24.39
400.0	402.0	31.27	7.80	24.40
424.9	427.0	31.28	7.81	24.41
438.6	440.7	31.28	7.81	24.41

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 41.70  
 DATE 10/ 8/81  
 TIME (PST) 2243

TAPE U00711 -152  
 LONG W 125 46.60  
 PASS NO.221  
 STN SIWASH BAY

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.2	5.1	3.29	14.68	1.77
10.0	10.0	27.81	8.89	21.55
15.0	15.0	29.71	8.29	23.12
19.9	20.0	29.92	8.31	23.28
24.9	25.0	30.14	8.25	23.46
29.8	29.9	30.39	8.12	23.67
34.9	35.0	30.56	7.92	23.83
39.8	40.0	30.58	7.96	23.85
44.9	45.1	30.65	7.91	23.90
49.8	50.0	30.67	7.88	23.93
59.7	60.0	30.77	8.00	23.99
69.7	70.0	30.82	8.01	24.03
79.6	80.0	30.91	8.15	24.07
89.6	90.0	30.96	8.27	24.09
99.6	100.1	30.98	8.34	24.10
110.5	111.0	31.02	8.35	24.13
120.4	121.0	31.06	8.39	24.16
130.4	131.0	31.08	8.40	24.17
140.4	141.0	31.10	8.41	24.19
150.3	151.0	31.12	8.43	24.20
160.3	161.0	31.12	8.42	24.20
170.2	171.0	31.14	8.43	24.21
180.1	180.9	31.16	8.43	24.23
190.0	191.0	31.18	8.42	24.25
200.1	201.1	31.19	8.42	24.26
224.9	226.0	31.22	8.37	24.28
249.9	251.1	31.22	8.35	24.29
274.7	276.0	31.24	8.31	24.31
299.5	301.0	31.24	8.26	24.32
325.4	327.0	31.24	8.07	24.34
350.3	352.0	31.24	7.95	24.36
362.0	363.8	31.24	7.92	24.36

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 41.60

DATE 10/ 8/81

TIME (PST) 2221

TAPE U00711 -151

LONG W 125 49.30

PASS NO.219

STN TOM. ISL.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.0	2.0	2.39	15.20	.99
5.1	5.0	2.38	15.20	.99
10.0	10.0	27.78	8.65	21.56
15.0	15.0	29.39	8.37	22.85
20.0	20.0	29.75	8.35	23.14
25.0	25.1	30.11	8.26	23.43
29.9	30.0	30.30	8.19	23.59
34.9	35.0	30.36	8.13	23.65
39.8	39.9	30.38	8.13	23.67
44.8	45.0	30.50	8.11	23.76
49.8	50.0	30.54	8.11	23.79
59.7	59.9	30.69	8.08	23.91
69.7	70.0	30.78	8.04	23.99
79.6	80.0	30.83	8.09	24.02
89.6	90.0	30.87	8.12	24.05
99.5	100.0	30.94	8.35	24.07
109.5	110.0	30.99	8.36	24.11
119.5	120.1	31.04	8.37	24.14
130.4	131.0	31.06	8.39	24.15
140.3	141.0	31.10	8.43	24.18
150.3	151.0	31.11	8.44	24.19
160.3	161.0	31.12	8.44	24.19
170.2	171.0	31.13	8.42	24.21
180.2	181.0	31.15	8.42	24.22
190.2	191.1	31.18	8.41	24.25
200.1	201.0	31.20	8.42	24.26
224.9	226.0	31.23	8.42	24.28
249.8	251.0	31.24	8.39	24.30
274.6	275.9	31.23	8.32	24.30
299.6	301.0	31.25	8.27	24.32
325.4	327.0	31.24	8.09	24.34
341.4	343.1	31.24	8.02	24.35

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 41.10  
 DATE 10/ 8/81  
 TIME (PST) 2200

TAPE U00711 -150  
 LONG W 125 51.90  
 PASS NO.217  
 STN MT. SAWYER

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.0	2.0	2.77	15.52	1.24
5.1	5.0	7.04	13.97	4.76
10.0	10.0	27.89	8.77	21.63
15.0	15.0	28.64	8.41	22.26
20.0	20.1	29.81	8.38	23.19
24.9	25.0	30.03	8.46	23.35
29.9	30.0	30.17	8.42	23.46
34.8	35.0	30.30	8.35	23.57
39.8	40.0	30.39	8.25	23.66
44.8	45.0	30.46	8.25	23.71
49.8	50.0	30.50	8.17	23.75
59.8	60.0	30.63	8.16	23.86
69.7	70.0	30.72	8.14	23.93
79.7	80.1	30.82	8.25	23.99
89.6	90.1	30.87	8.24	24.03
99.6	100.0	30.92	8.39	24.05
109.6	110.1	30.94	8.41	24.06
120.4	121.0	30.98	8.37	24.10
130.4	131.0	31.01	8.40	24.12
140.3	141.0	31.01	8.36	24.12
150.3	151.0	31.05	8.39	24.15
160.3	161.0	31.06	8.32	24.16
170.2	171.0	31.07	8.35	24.17
180.2	181.1	31.09	8.38	24.18
190.2	191.1	31.11	8.45	24.19
200.1	201.0	31.12	8.45	24.20
224.9	226.0	31.17	8.45	24.23
249.8	251.0	31.23	8.44	24.28
274.7	276.1	31.25	8.40	24.30
299.6	301.0	31.27	8.41	24.32
325.5	327.1	31.26	8.22	24.34
349.4	351.1	31.25	8.16	24.34



COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 40.70  
 DATE 10/ 8/81  
 TIME (PST) 2130

TAPE U00711 -149  
 LONG W 125 54.40  
 PASS NO.214  
 STN ROUGH PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.1	5.0	3.37	15.27	1.74
9.9	9.9	27.67	9.07	21.42
15.0	15.0	29.40	8.49	22.85
19.9	20.0	29.82	8.44	23.18
25.0	25.1	29.95	8.45	23.28
29.9	30.0	30.25	8.47	23.51
34.9	35.0	30.41	8.45	23.64
39.8	40.0	30.54	8.47	23.74
44.8	45.0	30.62	8.40	23.81
49.9	50.1	30.69	8.44	23.86
59.7	60.0	30.75	8.45	23.90
69.7	70.0	30.82	8.39	23.97
79.7	80.0	30.88	8.41	24.01
89.6	90.0	30.94	8.42	24.06
99.6	100.1	30.98	8.43	24.09
110.5	111.0	31.00	8.42	24.11
120.4	121.0	31.01	8.40	24.12
130.4	131.0	31.05	8.44	24.14
140.4	141.1	31.07	8.46	24.16
150.3	151.0	31.09	8.46	24.17
160.3	161.1	31.11	8.46	24.18
170.2	171.0	31.13	8.47	24.20
180.2	181.0	31.15	8.47	24.22
190.2	191.1	31.16	8.48	24.22
200.1	201.0	31.16	8.47	24.23
224.9	226.0	31.19	8.46	24.25
249.9	251.1	31.22	8.47	24.27
274.7	276.0	31.25	8.46	24.29
299.5	301.0	31.27	8.45	24.31
325.4	327.0	31.27	8.43	24.32
350.3	352.0	31.28	8.39	24.33
375.2	377.0	31.28	8.35	24.33
400.1	402.0	31.27	8.27	24.34
404.9	406.9	31.27	8.28	24.33

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 40.60  
 DATE 10/ 8/81  
 TIME (PST) 2101

TAPE U00711 -148  
 LONG W 125 57.20  
 PASS NO.213  
 STN CAMP PEAK

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.8	.8	3.54	14.98	1.91
2.0	2.0	3.59	15.02	1.95
5.2	5.1	5.43	14.84	3.39
10.0	10.0	28.91	8.61	22.45
15.0	15.0	29.41	8.48	22.85
19.9	20.0	29.60	8.60	22.98
24.9	25.0	30.18	8.54	23.45
29.9	30.0	30.32	8.51	23.56
34.8	34.9	30.43	8.51	23.64
39.8	40.0	30.54	8.49	23.74
44.8	45.0	30.59	8.49	23.77
49.7	50.0	30.71	8.44	23.88
59.8	60.1	30.77	8.32	23.94
69.7	70.0	30.80	8.29	23.97
79.7	80.0	30.83	8.31	23.99
89.6	90.0	30.85	8.22	24.02
99.6	100.1	30.87	8.26	24.03
109.5	110.0	30.90	8.35	24.04
120.5	121.0	30.95	8.41	24.06
130.4	131.0	30.99	8.45	24.09
140.4	141.0	31.01	8.47	24.11
150.4	151.1	31.12	8.48	24.19
160.3	161.1	31.19	8.47	24.24
170.2	171.0	31.21	8.47	24.26
180.2	181.0	31.21	8.48	24.26
190.0	191.0	31.23	8.46	24.28
200.1	201.0	31.24	8.46	24.29
224.9	226.0	31.26	8.46	24.30
249.8	251.0	31.27	8.44	24.31
274.6	276.0	31.28	8.40	24.33
299.6	301.0	31.28	8.34	24.33
325.4	327.0	31.28	8.37	24.33
350.3	352.0	31.29	8.37	24.34
357.8	359.6	31.29	8.38	24.34

COASTAL ZONE OCEANOGRAPHY  
CRUISE NO 01 KNIGHT INLET, 1981  
LAT N 50 40.60  
DATE 10/ 8/81  
TIME (PST) 2046

TAPE U00711 -147  
LONG W 125 59.50  
PASS NO.211  
STN HOEYA HEAD

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.8	.8	5.28	15.39	3.18
2.0	2.0	5.27	15.39	3.17
5.1	5.0	5.35	15.42	3.23
10.0	10.0	27.69	8.75	21.48
15.0	15.0	29.36	8.66	22.79
20.0	20.0	29.63	8.63	23.00
24.9	25.0	30.35	8.51	23.58
29.9	30.0	30.47	8.49	23.68
34.8	35.0	30.64	8.45	23.82
39.9	40.1	30.67	8.45	23.85
44.8	45.0	30.80	8.44	23.95
49.8	50.0	30.97	8.47	24.07
59.7	59.9	31.40	8.59	24.39
69.4	69.8	31.63	8.50	24.58

## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 39.90  
 DATE 10/ 8/81  
 TIME (PST) 2022

TAPE U00711 -146  
 LONG W 126 4.20  
 PASS NO.209  
 STN KN3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.7	.7	5.40	15.83	3.21
2.0	1.9	5.39	15.83	3.20
5.1	5.0	5.94	14.61	3.81
10.0	10.0	29.32	8.69	22.75
14.9	15.0	29.93	8.60	23.25
19.9	20.0	30.52	8.51	23.72
24.9	25.0	30.77	8.44	23.92
29.9	30.0	30.84	8.44	23.98
34.8	35.0	30.89	8.48	24.01
39.8	40.0	30.90	8.56	24.01
44.8	45.0	31.18	8.65	24.21
49.8	50.0	31.35	8.63	24.35
59.7	60.0	31.63	8.54	24.58
69.7	70.0	31.71	8.50	24.65
79.6	80.0	31.77	8.49	24.69
89.5	90.0	31.81	8.48	24.73
100.4	101.0	31.84	8.47	24.75
110.4	111.0	31.85	8.47	24.76
120.4	121.0	31.87	8.47	24.78
130.3	131.0	31.89	8.46	24.79
140.2	141.0	31.95	8.47	24.84
150.3	151.1	31.97	8.47	24.86
160.2	161.0	31.98	8.47	24.87
170.1	171.0	32.01	8.46	24.89
180.0	181.0	32.02	8.46	24.90
190.1	191.2	32.03	8.46	24.91
190.7	191.7	32.03	8.46	24.91

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 39.20  
 DATE 10/ 8/81  
 TIME (PST) 1946

TAPE U00711 -145  
 LONG W 126 12.50  
 PASS NO.207  
 STN MONTAGU PT.

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.8	.8	9.98	15.78	6.71
2.0	1.9	9.83	15.80	6.60
5.0	5.0	19.83	11.56	14.98
9.9	10.0	29.14	8.90	22.59
15.0	15.0	29.68	8.73	23.03
19.9	20.0	30.18	8.64	23.43
24.9	25.0	30.38	8.56	23.60
29.9	30.0	30.50	8.54	23.70
34.8	35.0	30.78	8.55	23.91
39.8	40.0	30.96	8.64	24.04
44.8	45.0	31.11	8.65	24.15
49.8	50.0	31.25	8.65	24.26
59.8	60.1	31.33	8.65	24.33
69.7	70.0	31.53	8.60	24.49
79.6	80.0	31.64	8.58	24.58
89.6	90.0	31.72	8.56	24.65
100.5	101.0	31.80	8.50	24.72
110.4	111.0	31.83	8.50	24.74
120.4	121.0	31.85	8.50	24.76
130.3	131.0	31.92	8.50	24.81
140.2	141.0	31.99	8.48	24.87
150.2	151.0	32.01	8.47	24.89
160.1	161.0	32.08	8.45	24.95
170.0	171.0	32.12	8.43	24.97
180.1	181.1	32.15	8.41	25.00
185.7	186.7	32.16	8.41	25.02



## COASTAL ZONE OCEANOGRAPHY

CRUISE NO 01 KNIGHT INLET, 1981

LAT N 50 38.50

DATE 10/ 8/81

TIME (PST) 1918

TAPE U00711 -144

LONG W 126 17.30

PASS NO.205

STN KN2

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.6	.6	14.73	14.93	10.49
2.0	2.0	14.70	14.92	10.48
5.1	5.0	20.00	12.44	14.96
10.0	10.0	29.28	8.98	22.68
14.9	15.0	30.07	8.67	23.34
19.9	20.0	30.38	8.70	23.58
24.8	25.0	30.63	8.62	23.79
29.9	30.0	30.81	8.57	23.93
34.8	35.0	30.87	8.62	23.97
39.8	40.0	30.98	8.65	24.05
44.8	45.0	31.10	8.65	24.15
49.7	50.0	31.20	8.67	24.23
59.7	59.9	31.49	8.65	24.45
69.6	70.0	31.64	8.60	24.58
79.6	80.0	31.74	8.56	24.66
89.5	90.0	31.77	8.53	24.69
100.5	101.0	31.80	8.53	24.71
110.4	111.0	31.85	8.52	24.76
120.4	121.0	31.91	8.51	24.80
130.3	131.0	31.96	8.49	24.84
140.3	141.0	32.01	8.48	24.88
150.2	151.1	32.05	8.46	24.92
160.1	161.0	32.05	8.46	24.92
170.1	171.0	32.07	8.45	24.94
180.0	181.0	32.13	8.43	24.99
189.8	190.9	32.13	8.43	24.99
199.9	201.0	32.17	8.41	25.02
224.8	226.0	32.19	8.40	25.04
244.6	246.0	32.28	8.35	25.11

COASTAL ZONE OCEANOGRAPHY  
 CRUISE NO 01 KNIGHT INLET, 1981  
 LAT N 50 38.10  
 DATE 10/ 8/81  
 TIME (PST) 1820

TAPE U00711 -143  
 LONG W 126 25.20  
 PASS NO.202  
 STN KN1

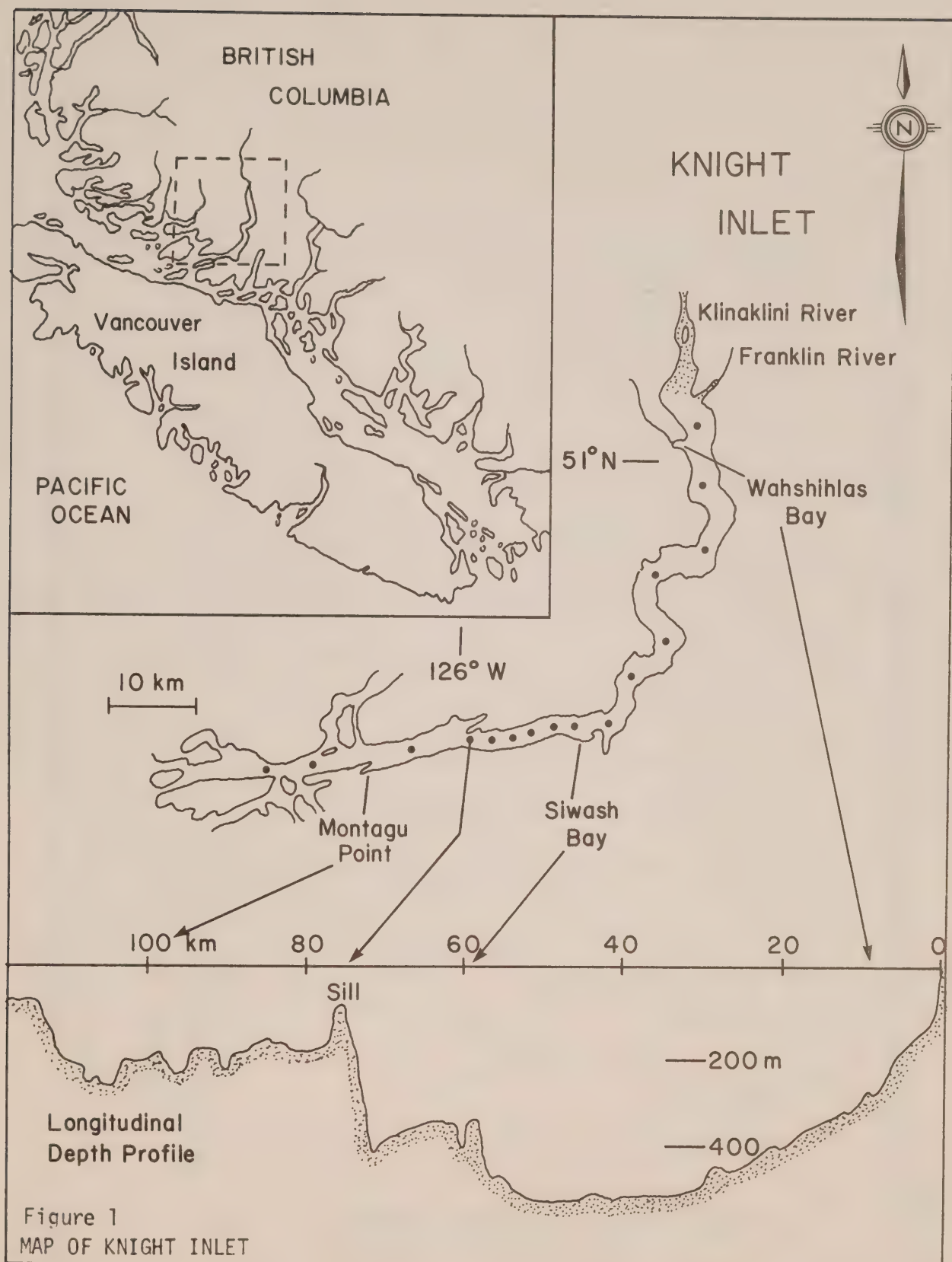
DEPTH	PRESS	SAL	TEMP	SIGMA-T
.4	.4	16.69	14.67	12.04
2.0	2.0	17.88	14.37	13.00
5.0	5.0	27.39	10.00	21.06
10.0	10.0	29.34	9.07	22.71
14.9	14.9	30.18	8.82	23.41
19.9	20.0	30.50	8.60	23.69
24.9	25.1	30.76	8.70	23.87
29.9	30.0	30.92	8.68	24.00
34.9	35.0	31.11	8.73	24.15
39.8	40.0	31.25	8.80	24.24
44.8	45.0	31.34	8.79	24.32
49.8	50.0	31.39	8.76	24.36
59.7	60.0	31.57	8.66	24.52
69.6	70.0	31.67	8.60	24.60
79.6	80.0	31.70	8.58	24.63
89.6	90.0	31.78	8.52	24.70
100.5	101.0	31.85	8.49	24.76
110.4	111.0	31.93	8.48	24.82
120.3	121.0	31.96	8.47	24.85
130.3	131.0	31.99	8.46	24.87
140.3	141.1	32.02	8.46	24.89
150.2	151.1	32.03	8.46	24.91
160.1	161.0	32.07	8.45	24.94
170.1	171.0	32.09	8.44	24.95
180.0	181.0	32.10	8.44	24.96
189.9	191.0	32.11	8.44	24.97
199.9	201.0	32.12	8.43	24.97
224.7	226.0	32.12	8.43	24.98
249.6	251.0	32.13	8.43	24.99
252.1	253.5	32.13	8.44	24.99



## FIGURES







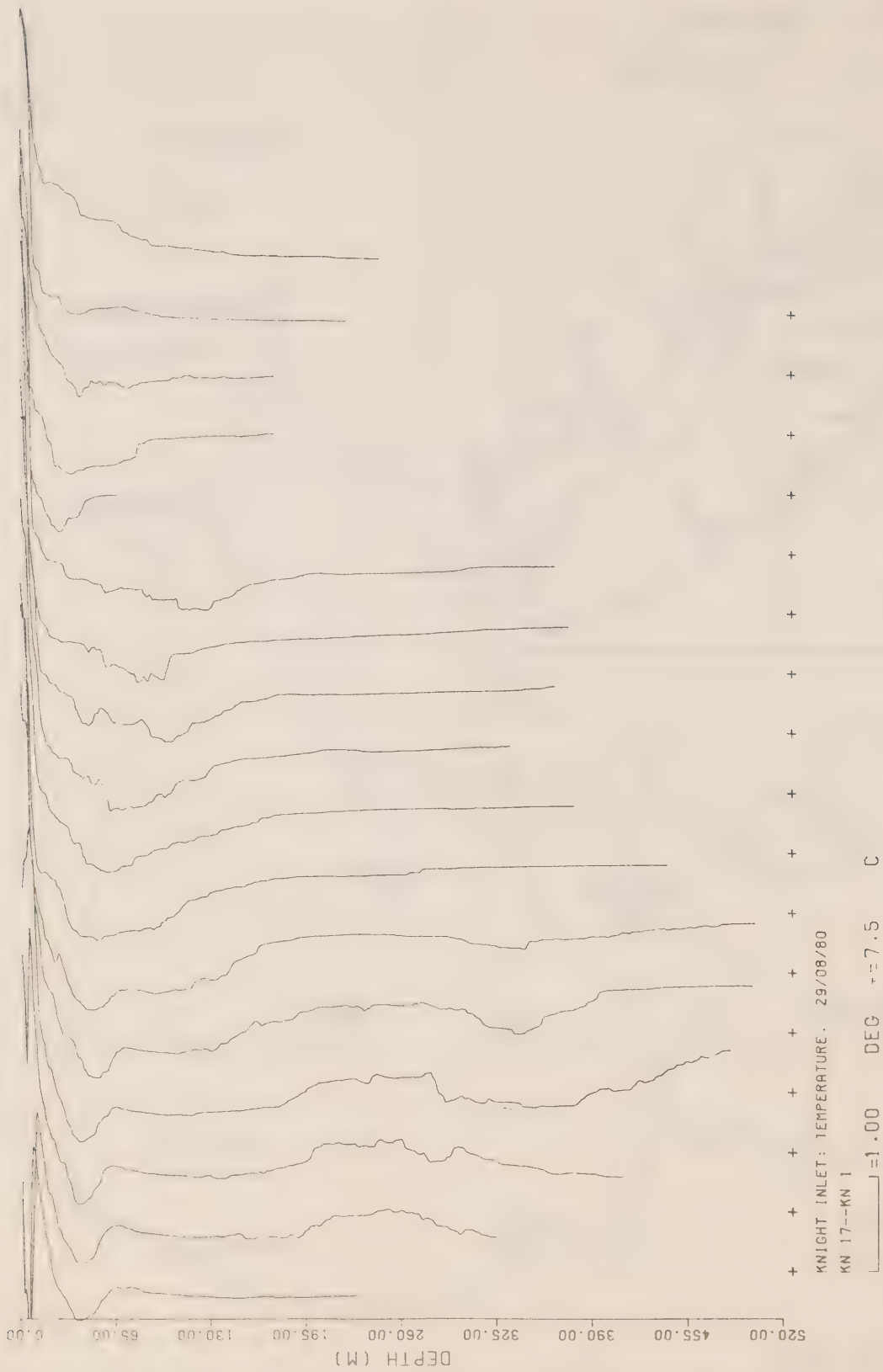


FIGURE 79

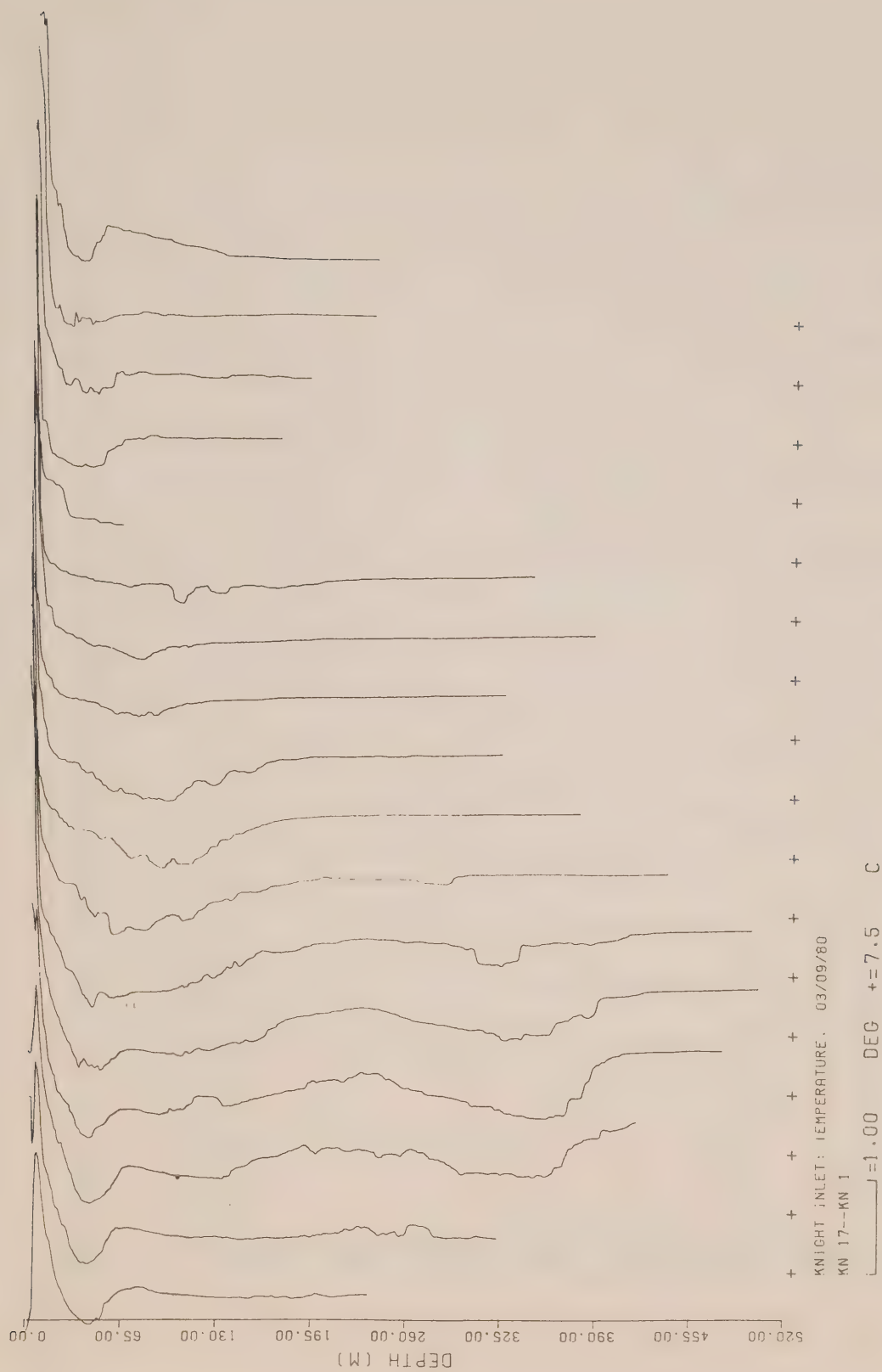


FIGURE 80

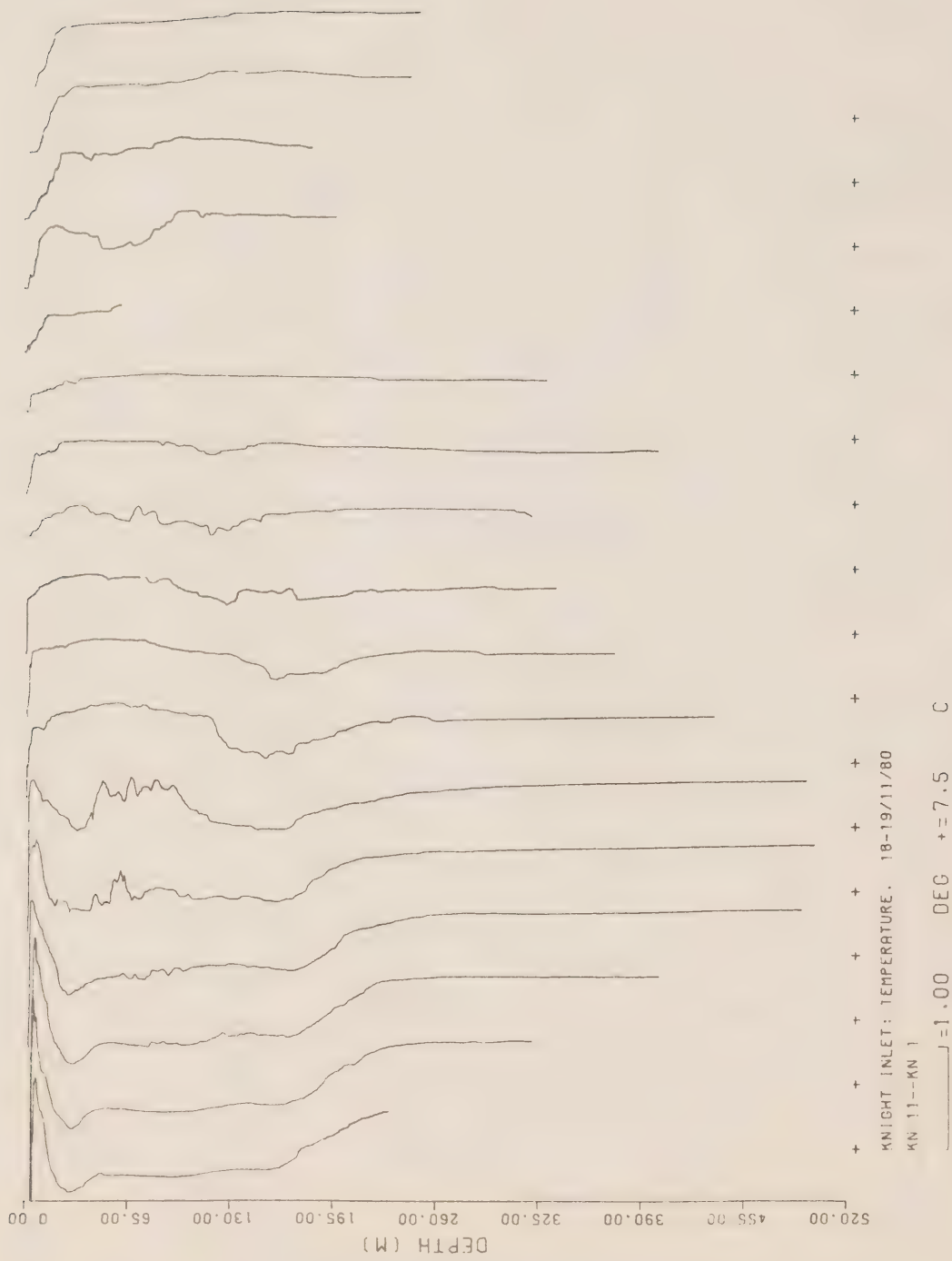


FIGURE 81

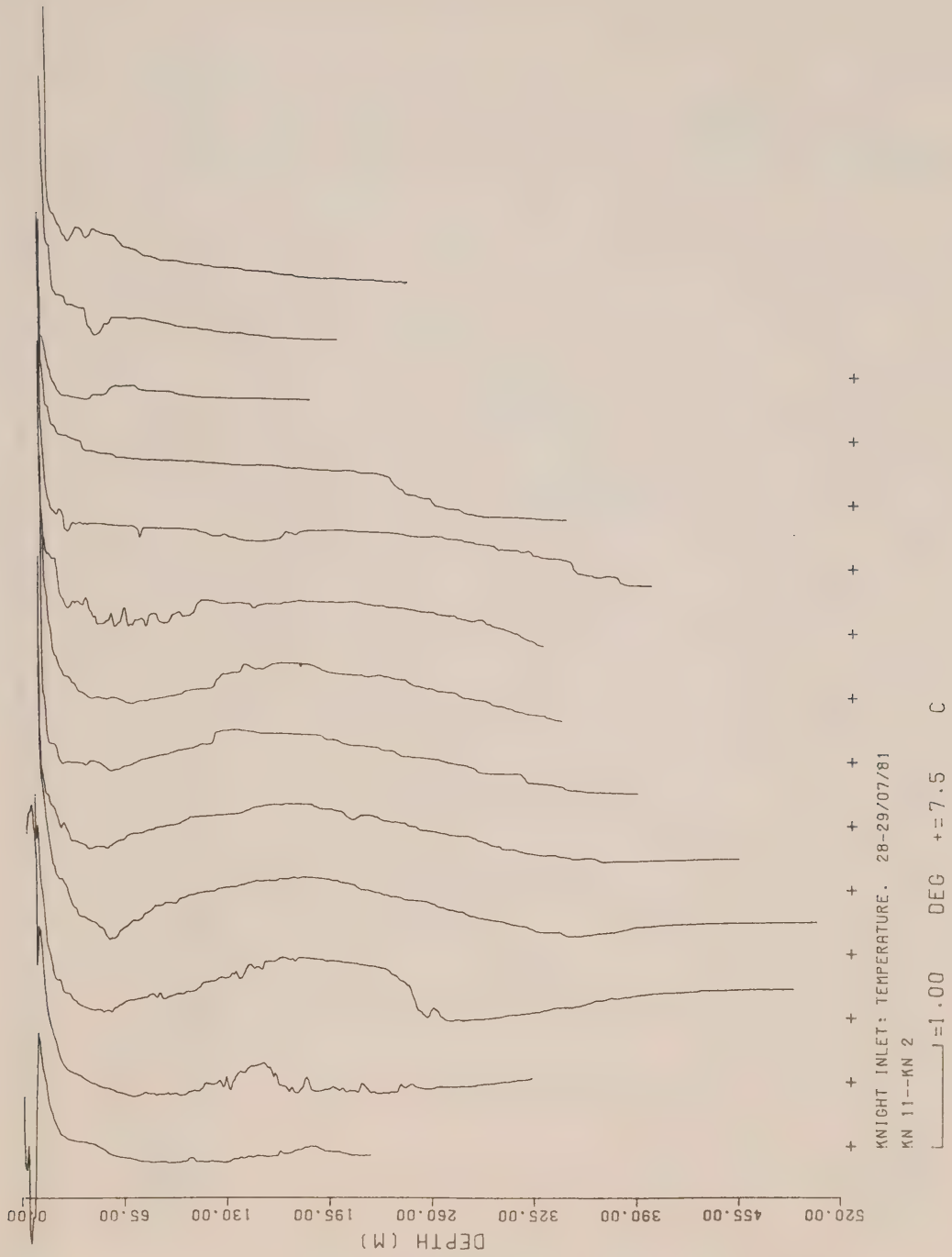


FIGURE 82





FIGURE 83

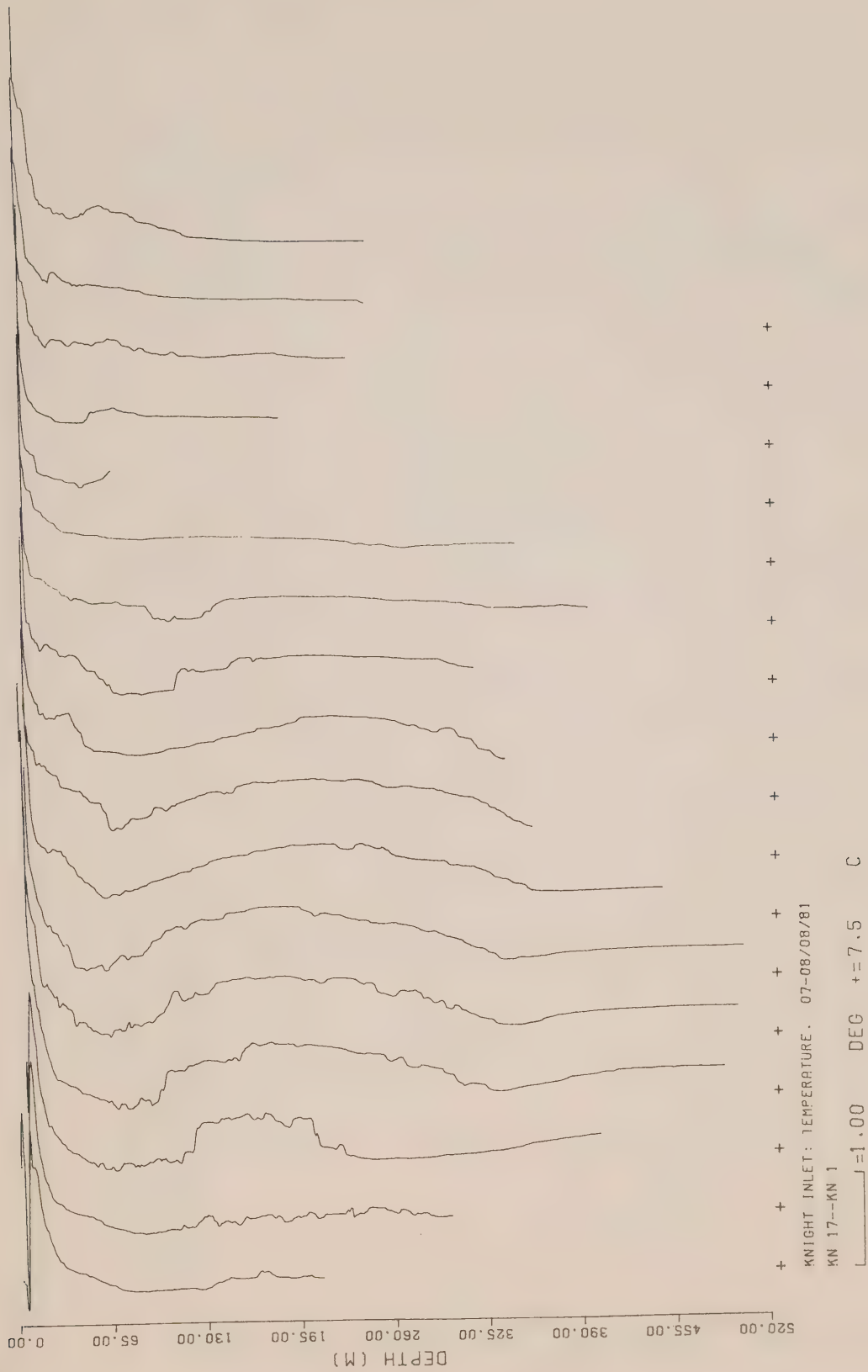


FIGURE 84

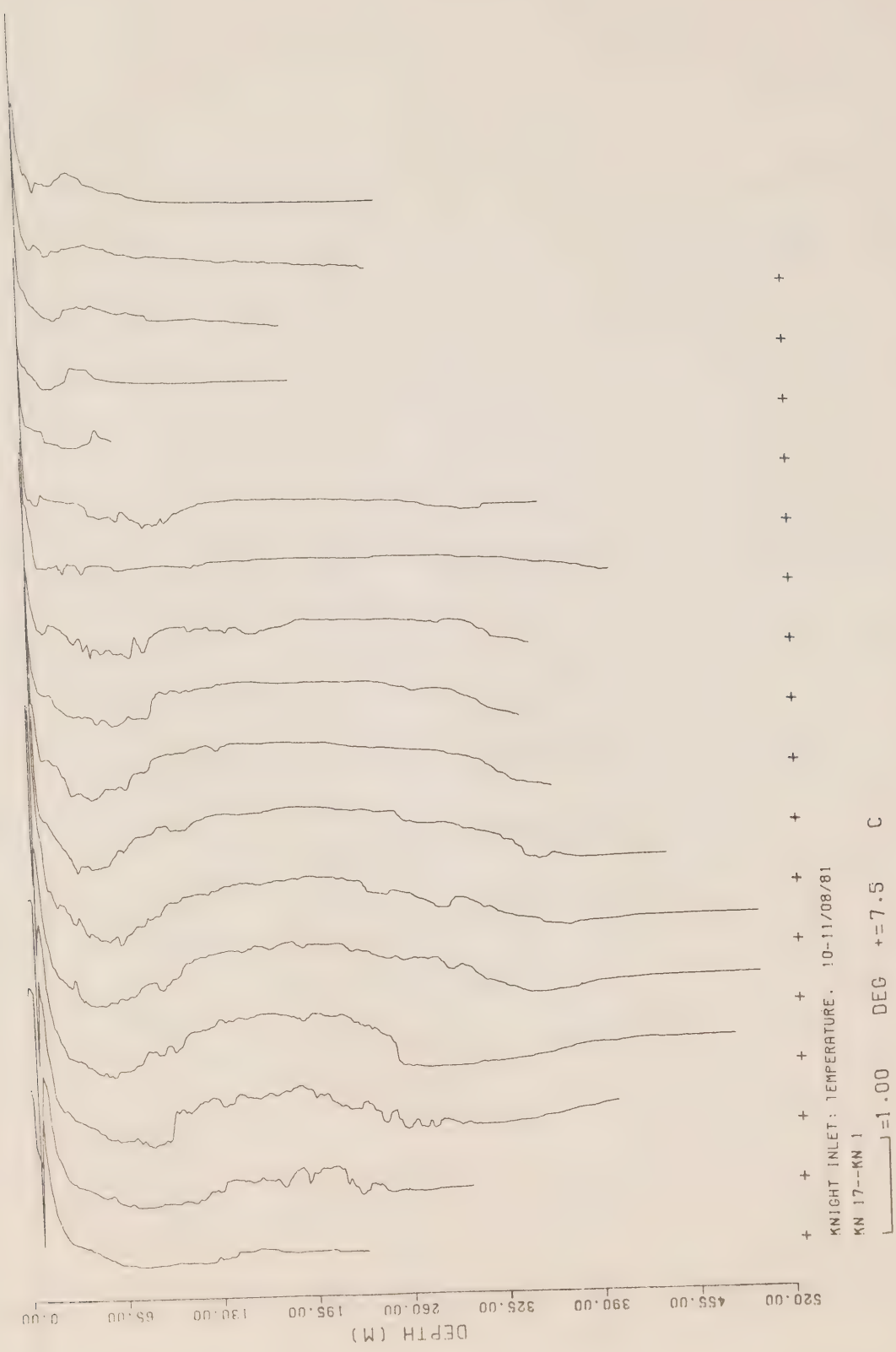


FIGURE 85

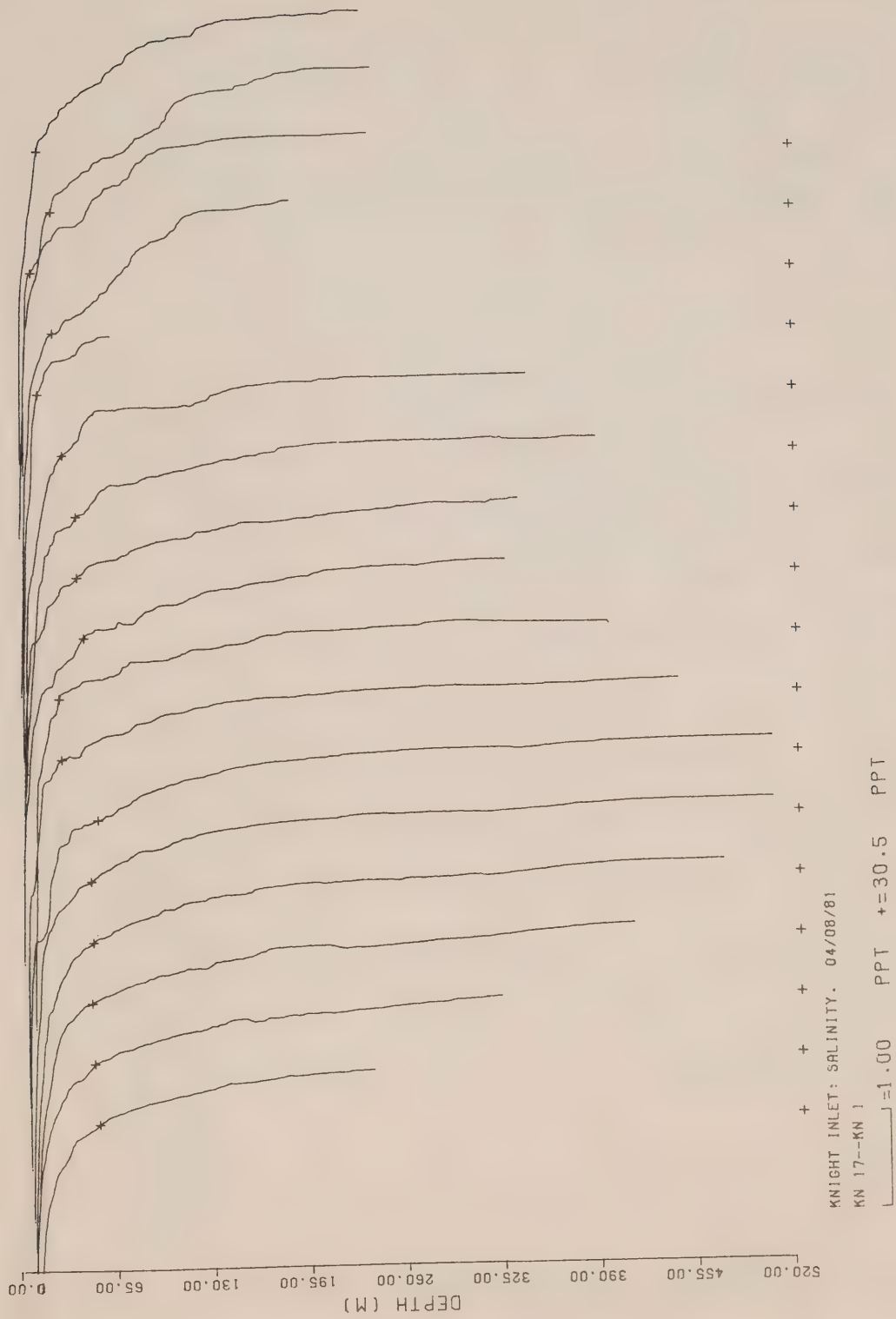


FIGURE 86

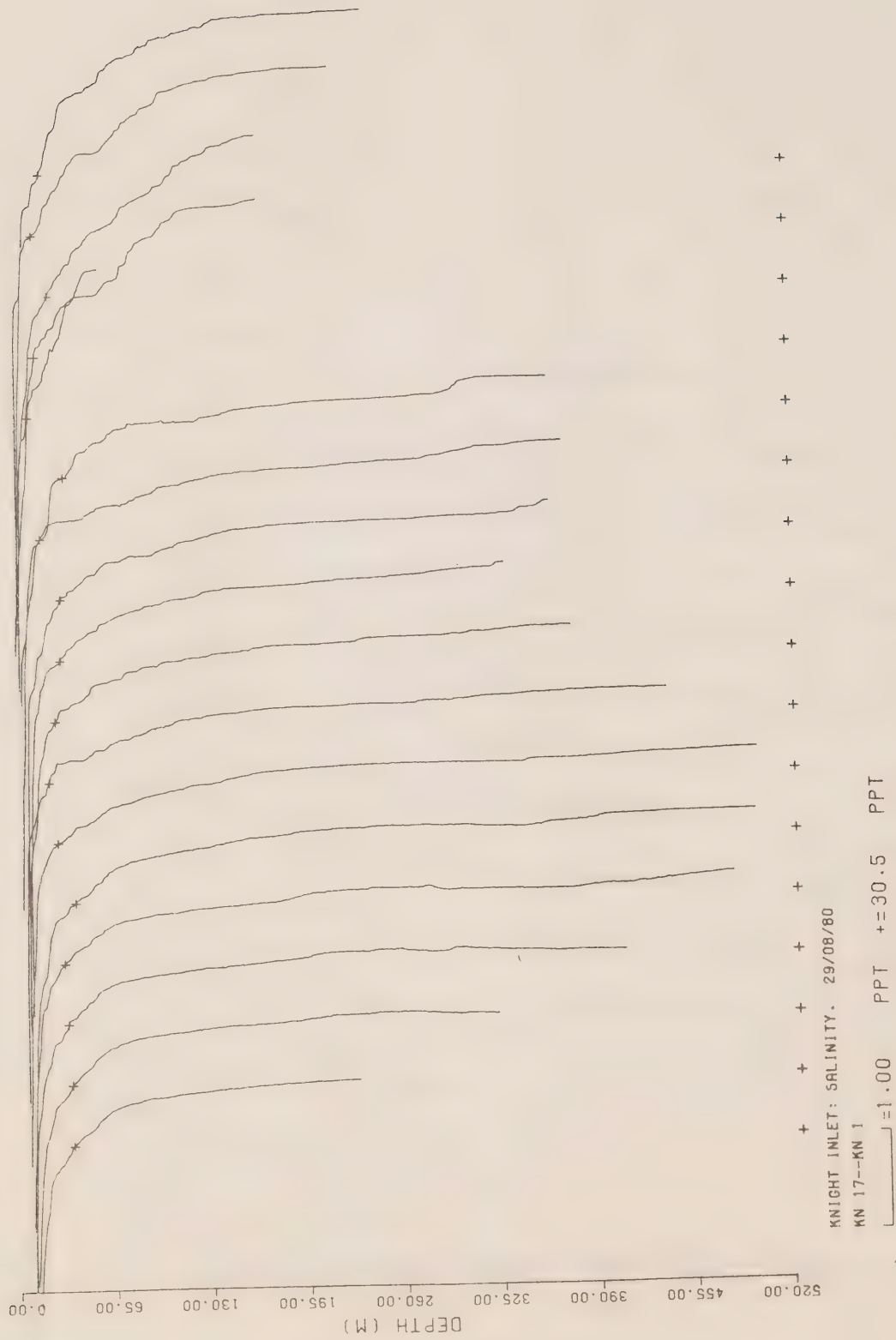


FIGURE 87





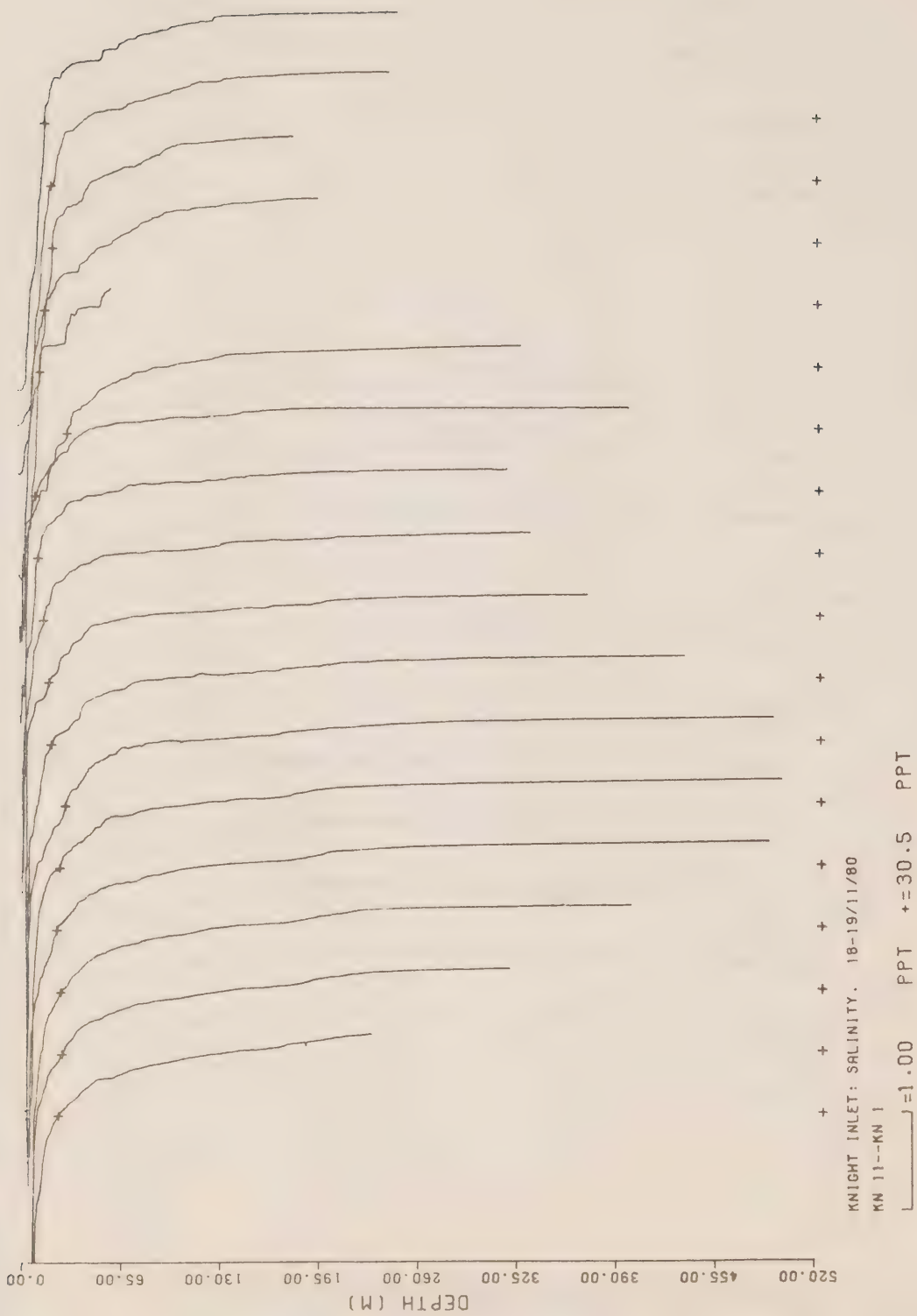


FIGURE 89

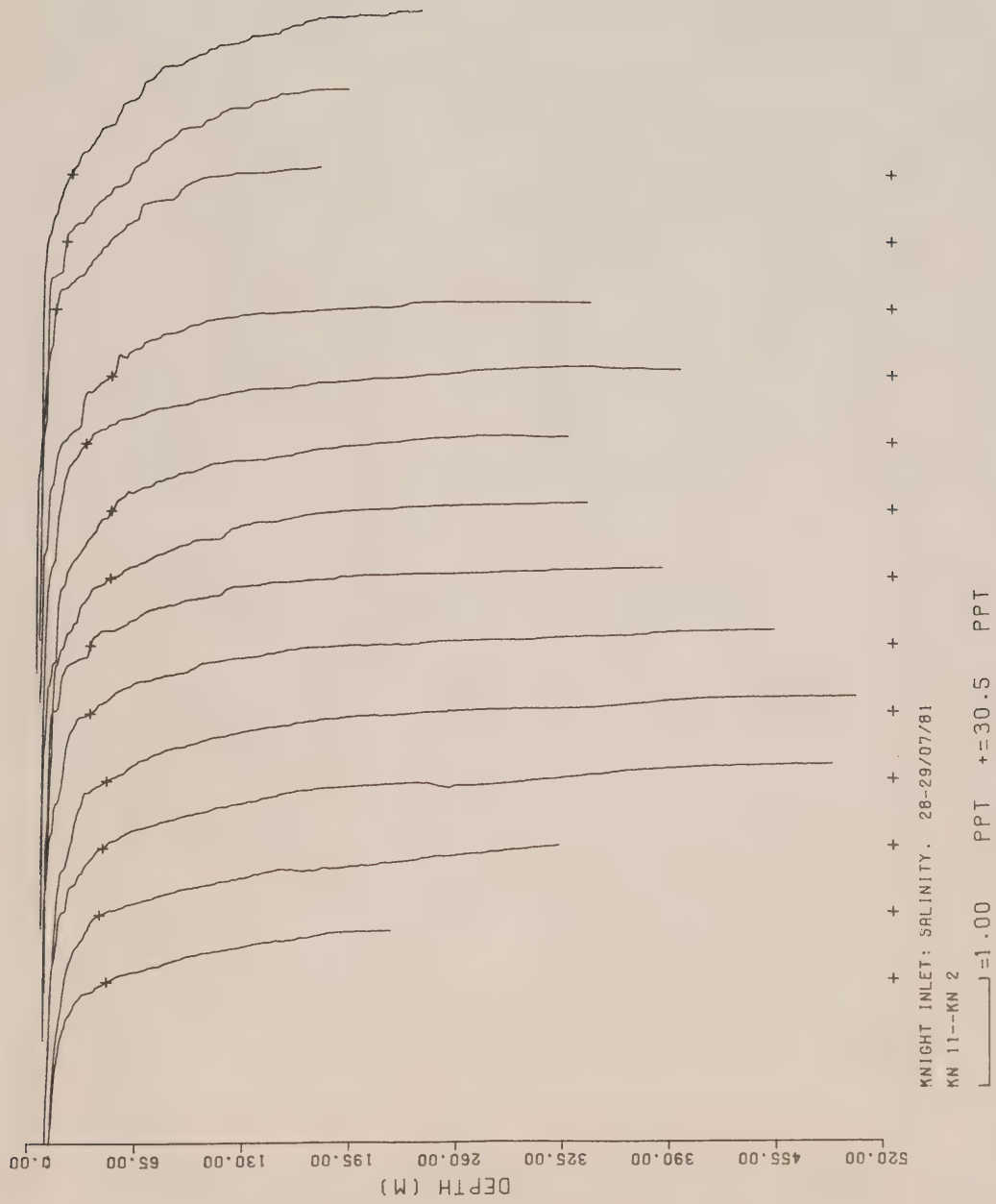


FIGURE 90

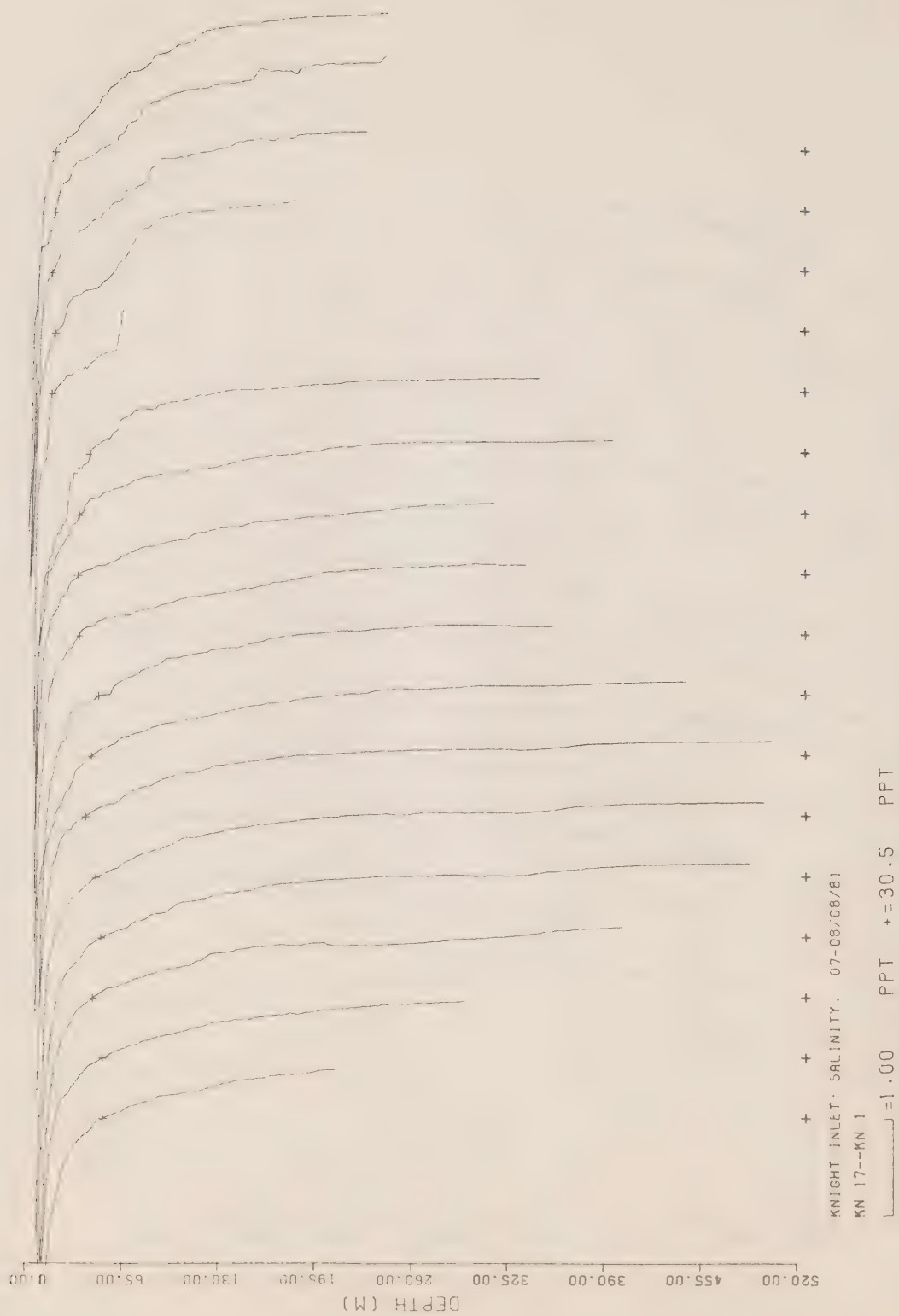


FIGURE 91

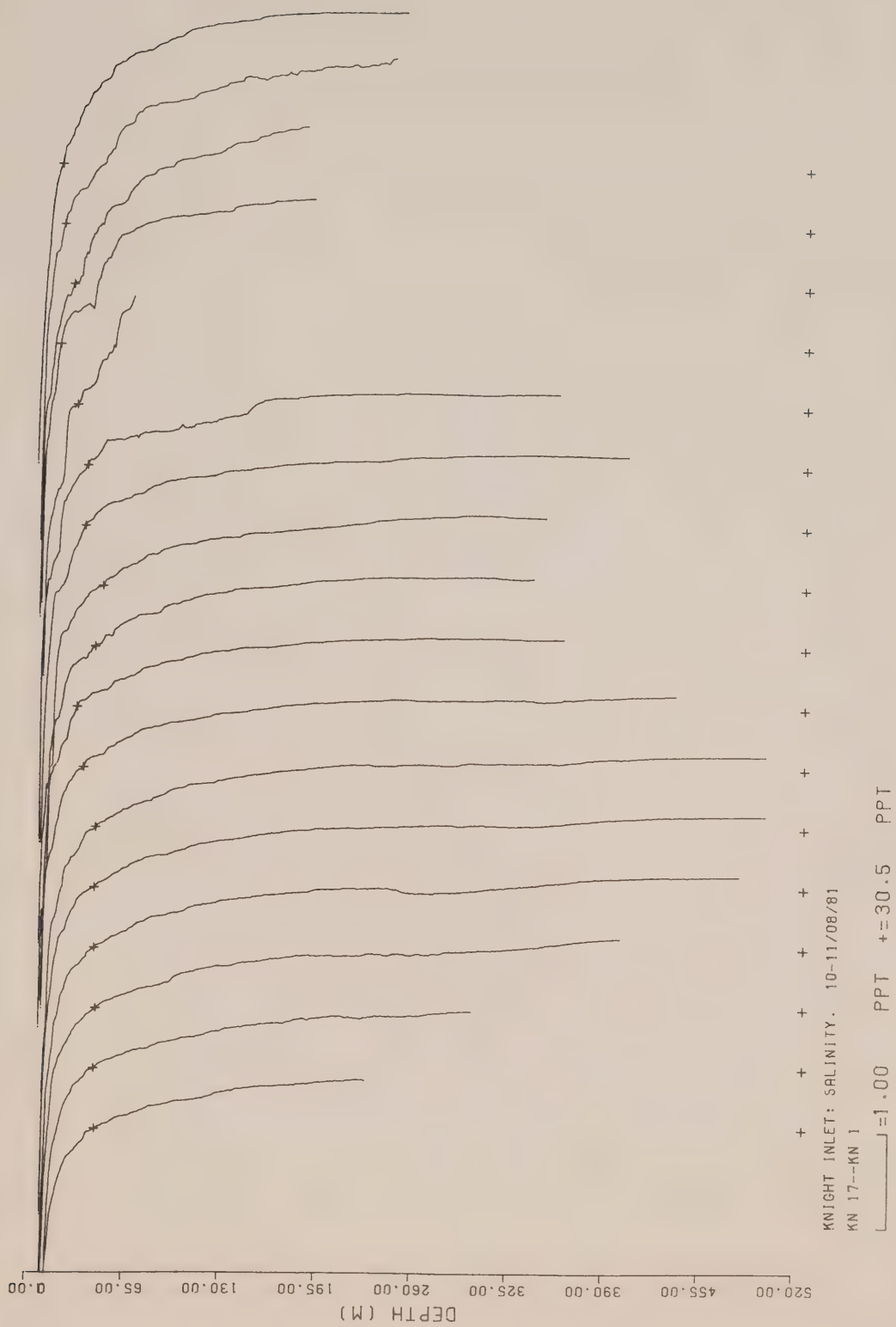


FIGURE 92



















